

Formosa Plastics Corporation, Texas 201 Formosa Drive • P.O. Box 700

Point Comfort, TX 77978 Telephone: 361-987-7000

January 30, 2019

Certified Mail: 7018 0360 0000 5327 9320 Air Section Manager, Region 14 Texas Commission Environmental Quality 6300 Ocean Drive, Suite 1200 Corpus Christi, Texas 78412

RE: Formosa Plastics Corporation, Texas

TCEQ Air Quality Account No. CB-0038-Q Fourth Quarter 2018 SUMMA Canister Report

Dear Air Section Manager:

Per your request, we have enclosed a quarterly summary of results from the Point Comfort SUMMA Canister Monitoring System. The fourth quarter of 2018 results are shown for each site on the attached tables. Additionally, we have included wind roses generated by the weather sensor on the FTIR or wind direction data from other air monitoring devices for each SUMMA canister sampling date during the fourth quarter of 2018.

Beginning with the first sample date in the fourth quarter 2003, we have also included average wind speed and wind direction on the tables. This was done at the request of Mr. David Carmichael of the TCEQ Austin office. In addition, at the request of Mr. Carmichael, the following changes have been made to the tables:

The duplicate sample data for all compounds has been removed from the VOC Canister Analysis Tables;

The averaged duplicate sample data was replaced with only the routine sample data in the VOC Canister Analysis Tables; and

An additional VOC Canister Analysis Table was created for the duplicate samples data. This was done so that the relative percent difference (RPD) could be calculated. The calculation for obtaining the RPD is shown in the Duplicate Sample section of the attached Calculation Methodology.

During a telephone conversation with Mr. Vincent Leopold (TCEQ TARA Group) on April 9, 1998, he requested a disk copy of the SUMMA Canister sampling results be included with the quarterly report. Enclosed is an electronic copy of the fourth quarter 2018 SUMMA Canister Report.





Should you have any questions please contact Vanessa Peppers by e-mail at VanessaP@ftpc.fpcusa.com.

Sincerely,

Rick Crabtree

Vice President/General Manager Formosa Plastics Corporation, Texas

Attachments

cc:

Dr. Tracie Phillips Toxicology Division

Texas Commission on Environmental Quality

Certified Mail: 7018 0360 0000 5327 9351

P. O. Box 13087

Austin, Texas 78711-3087

FORMOSA PLASTICS CORPORATION, TEXAS

SUMMA CANISTER QUARTERLY REPORT

CALCULATION METHODOLOGY

Following is the calculation methodologies used to calculate the Year-To-Date Sum and Year-To-Date Average for the four SUMMA canister sampling sites. Please note, there are two columns associated with each component analyzed. The column titled "Actual" represents the results reported by the independent laboratory contracted to analyze the SUMMA canisters. The column titled "½ Reported LOD (Limit of Detection)" represents either the actual result or one-half the limit of detection reported by the laboratory, as appropriate.

ACTUAL

The following is entered into the column titled "Actual":

Numerical Value - Actual results reported by the independent laboratory when the result is equal to or greater than the limit of detection. The numerical value is used to calculate the year-to-date sum and the year-to date average;

ND (Non Detect) - As reported by the laboratory. The value of "0" is used to calculate the year to date sum and the year-to-date average;

BDL (Below Detection Limit) - Entered when the actual result is less than the reported limit of detection. The value of "0" is used to calculate the year-to-date sum and the year-to-date average;

"*" - Non operational sampling period.

1/2 REPORTED LOD (LIMIT OF DETECTION)

The following is entered into the column titled "1/2 Reported LOD":

Numerical Value - Actual results reported by the independent laboratory when the result is equal to or greater than the limit of detection. The numerical value is used to calculate the year-to-date sum and the year-to-date average;

½ the Reported Limit of Detection - ½ the reported limit of detection when the results are reported as non-detect and when the actual result is below the detection limit (BDL). ½ the reported limit of detection is used to calculate the year-to-date sum and the year-to-date average.

"*" - Non operational sampling period.

FORMOSA PLASTICS CORPORATION, TEXAS

SUMMA CANISTER QUARTERLY REPORT

Limit of Detection (LOD) - Method Detection Limit, Limit of Detection, Reporting Limit, etc... as reported by the independent laboratory conducting the analysis.

DUPLICATE SAMPLES

Beginning with the revised First Quarter 2004 Report, submitted on October 22, 2004, the duplicate samples will be reported discreetly on a separate VOC Canister Analysis Table. This is done so that the duplicate samples can be compared to the routine samples and the Relative Percent Difference (RPD) can be calculated. The RPD is calculated using the following equation:

$$\{(X1-X2)/[(X1+X2)/2]\} \times 100$$

Mr. David Carmichael provided this equation in his August 20, 2004 e-mail request for changes. Where the duplicate and routine sample indicated "ND", the RPD is reported as "ND". Where the duplicate or routine sample indicated "ND" and the other indicated a concentration greater than ND, the RPD is calculated by using the value entered in the actual concentration column and the value entered in the ½ Reported LOD column.

YEAR-TO-DATE SUM

The year-to-date sum is calculated by taking the sum of all values entered in the column.

YEAR-TO-DATE AVERAGE

The following formula is used to calculate the year-to-date average:

Year-To-Date Sum / (Number of theoretical sample periods - Number of non operational sample periods)

FORMOSA VOC CANISTER ANALYSIS 4th QUARTER 2018 POINT COMFORT - CITY HALL SITE

SAMPLE DATE	AVG.WIND	AVC WIND										
	DIRECTION	SPEED (mph)	Actual	LIHYLENE 1/3 Property On	1,3	BUTADIENE		BENZENE	VINNE	The same of the sa		
1 Are not to a	(Degrees)		(qdd)	(and)		1/2 Reported LOD	Actual	1/2 Reported LOD	Ac	usi 1/2 Personal P. Or.		ETHYLENE DICHLORIDE
1/5/2018	7.1	5.0	Si	*	(ndd)	(qdd)	(qdd)	(qde)		Cici paueday 70		1/2 Reported LOD
1/11/2018	202	8.9	*	*		*	4	R	*	(add)	(qdd)	(bpb)
1/11/2018	311	4.2	м	*			¥	*	N	.	H	÷e
1/2,8/2018	275	4.0	H	*	•	*	и	*	×	,	*	W.
1/29/2018	341	5.6	м	4	4	×	de .	*	le		*	*
2/4/2018	161	5.2	S	100000	*	*	н	*	H	*	×	**
2/10/2018	218	3.8	GN GN	0.0500	OND	0.1250	0.2470	0.75.0	400	*	*	24
2/16/2018	147	5.1	e e	0.0000	QN.	0.1250	0.8060	0.8060	ON	0.0500	0.1070	0.1070
20202018	315	6.2	*	0.0500	ON	0.1250	0.4030	0.4030	0.0080	0.6680	QN	0.0500
2/28/2018	145	10.1	N.	0.00000	*	*	м	*	da ×	0.0500	1.7000	1.7000
3/6/2018	211	8.3	QN CN	0.0200	0.377	0.3770	1.6500	1.6500	dia	*	н	*
3/12/2018	279	7.4	GN CIN	0.0200	QN	0.1250	0.8420	0.8430	ON O	0.0500	QN	0.0500
3/18/2018	125	5.4	CN.	0.0500	QN	0.1250	0.5510	0.5510	0.4750	0.4750	0.2470	0.2470
3/24/2018	146	7.7	QN CN	0.0200	QN	0.1250	0.1690	0.000	0.0320	0.6320	QN	0.0500
3/30/2018	126	7.1	GN CN	0.0200	QN	0.1250	0.2300	0.2300	ON ON	0.0500	QN	0.0500
4/5/2018	96	5.6	N N	0.0500	Q.	0.1250	0.4860	0.4860	CINI Odean	0.0500	QN	0.0500
4/11/2018	114	4.4	2	0.0500	ND	0.1250	0.1990	0.1980	0.4690	0.4690	0.1390	0.1390
8/17/7/1/8	144	9.7	ON ON	0.0500	ON	0.1250	0.3390	03300	UND	0.0500	0.1160	0.1160
4/23/2018	243	C	d.	0.0500	ND	0.1250	0.3190	0.3100	0.1510	0.1510	0.1730	0.1730
4/29/2018	901	5.5	9	0.0500	QN	0.1250	0.2270	0.0000	ON	0.0500	ND	0.0500
\$75/2018	320	3.5	ON ON	0.0500	ND	0.1250	0.1580	0.550	25900	2.5930	0.8170	0.8170
5/11/2018	122	1.6	2 6	0.0500	QN	0.1250	0.4130	0.1760	ONO	0.050.0	QN	0.0500
5/17/2018	159	6.0	ON ON	0.0500	ND	0.1250	0.1340	0.1340	0.9900	0.9930	0.2730	0.2730
5/23/2018	96	5.2	*	0.0500	QN	0.1250	0.1250	0 1250	ON NIN	0.0500	QN	0.0500
\$729/2018	141	5.2	ND		**	*	nk	*	ON.	0.0500	ND	0.0500
6/4/2018	691	4.4	GN GN	0.0500	ND	0.1250	0.1680	0.1450		*	*	le
6/10/2018	140	×	CIN	0.0500	ND	0.1250	0.1800	0.1060	QN	0.0500	0.1630	0.1630
6/16/2018	114	0.0	Q.	0.0500	ND	0.1250	0.1750	0.1760	0.1090	0.1090	0.1030	0.1030
6/22/2018	151	4.0	GN S	0.0500	ND	0.1250	ND	0.1750	QN	0.0500	ND	0.0500
6/28/2018	143	20	NO.	0.0500	QN	0.1250	0.2780	0.0300	QN	0.0500	ND	0.0500
7/4/2018	136	7.1	ON ON	0.0500	QN	0.1250	0.2150	0.2150	QN	0.0500	0.1380	0.1380
7/10/2018	121	4.6	UN NEW	0.0500	ND	0.1250	0.1020	0.000	QN	0.0500	QN	0.0500
7/16/2018	153	6.5	ON ON	0.0500	ND	0.1250	0.3820	0.1020	0.8600	0.8600	6.1100	6.1100
8102/27/2	176	5.7	S. S.	0.0500	QN	0.1250	0.2210	01000	ON ON	0.0500	ND	0.0500
7/28/2018	133	4.0	CN CN	0.0500	QN	0.1250	0.1850	0.1850	ON S	0.0500	0.1760	0.1760
8/3/2018	107	4.1	2	0.0500	Q.	0.1250	GN	0.0500	ON CAN	0.0500	0.1990	0.1990
8/9/2018	138	5.6	ND	0.0500	ON IN	0.1250	0.3850	0.3850	0.6580	0.0000	QN	0.0500
8/17/2018	135	0.9	ND	0.0500	GN GN	0.1250	QN	0.0500	QN	0.0500	0.7690	0.7690
8/21/2018	155	5.4	QN	0.0500	ON ON	0.1250	0.2890	0.2850	ND	0.0500	QN	0.0500
8/10/2018	121	4.3	ND	0.0500	GN GN	0.1250	0.1220	0.1220	QN.	0.0500	ON SE	0.0500
0/12/2018	16	1.8	ND	0.0500	GN CN	0.1250	ND	0.0500	ND	0.0500	O 1020	0.0500
0110270110	090	4.6	ND	0.0500	2	0.1250	0.1930	0.1930	0.7720	0.77.0	0.0000	0.1020
01747010	187	1.3	N	*	*	0.1.20	0.1530	0.1530	ND	0.050.0	0.100	0.9860
9/30/2018	1115	4.5	ND	0.0500	CN	0 1000	*	×	*	*	V.J.IIAV	0.1100
10/2/2019	8	2.2	ND	0.0500	QN	0.1260	0.1490	0.1450	ND	0.0500	UN	00000
10/07/01/8	126	7.1	*	*	4	0.120	0.5390	0.5350	2.3200	2.3200	13400	0.0500
10/12/2018	88	5.1	QN	0.0500	+	**	*	sh	*	A A	1400	1.2400
10/18/2018	343	4.9	0.6490	0.6400	GN.	0.1250	0.4490	0.4490	0.2060	0.7000	*	*
10/26/2018	249	1.5	0.6510	0.6510	ON ON	0.1250	0.6530	0.6530	0.9220	0.000	2,0900	2.0900
11/1/2018	324	6.2	н	4	IND.	0.1250	0.3480	0.3480	0.3960	0.3960	OND	0.0500
11/1/2010	157	4.8	ND	0.0500	0.275	03500	4	*	*	*	W.1430	0.1230
					Oct. P.C.	0.272.0	0.1720	0.1720	CN	00000		*

FORMOSA VOC CANISTER ANALYSIS 4th QUARTER 2018 POINT COMFORT - CITY HALL SITE

SAMPLE DATE	AVG.WIND	AVG.WIND	ETH	ETHYLENE	1,380	1,3 BUTADIENE	BEN	BENZENE	VINYLC	VINYL CHLORIDE	ETHYLENE	ETHYLENE DICHLORIDE
	DIRECTION (Degrees)	SPEED (mph)	Actual (ppb)	1/2 Reported LOD	Actual (npb)	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD
11/13/2018	321	7.6	QN	0.0500	UN	03610	01100	(add)	(odd)	(bbb)	(add)	(qdd)
010000111	0.00		-	AUCU'O	CN	0.1230	0.1150	0.1150	ND	0.0500	Q	0.0500
11/1//2018	88	4.5	*	*	*	*	H	*	*	*	*	*
11/25/2018	316	3.0	N	0.0500	QN	0.1250	0.2070	0.2070	CN	0.0600	MIN	00000
21001101	OVE	2.0	4	00000					Ci.	Octobro.	CND	0.0500
O CONTROLL	Ot-	7.7	TAN	0.05(A)	ON	0.1250	0.1750	0.1750	Q	0.0500	0.1220	0.1220
12/7/2018	102	6.1	Q	0.0500	QN	0.1250	0.2320	0.2320	CN	0.0500	UN	0.0500
12/13/2018	235	6.7	ON	0.0500	R	0.1250	0.1500	0.1500	CN	0.0000	92	00000
12/19/2018	15	1.7	GN	0.0500	CIN	0 1050	00000	0.0000	ON O	ODCO:	UND	0,0500
(Alberthia)	705			NOCOTO .	C.V.	0.1230	0.2250	0.2280	0.1510	0.1510	0.2110	0.2110
12/2/2018	901	5.9	ON	0.0500	QN	0.1250	0.1090	0.1090	ON	0.0500	QN.	0.0500
12/31/2018	334	4.2	QN	0.0500	ON	0.1250	0.1970	0.1970	GN.	00500	ND	0.0500

	ELLE	ETHYLENE	1,3 BU	1,3 BUTADIENE	BEN	BENZENE	VINYL (VINYL CHLORIDE	ETHYLENE	ETHYLENE DICHLORIDE
	Actual (ppb)	L/2 Reported L/OD (ppb)	Actual (pob)	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD
Year-To-Date Sum	1.3000	3.6500	0.6520	6.5270	14.0230	14 22 30	12 8690	(4 5100	(add)	(add)
							OFFICE T	OCICH!	10.2140	17.3140
Rolling Year Average	0.0265	0.0745	0.0133	0.1332	0.2862	0.2903	0.2626	0.2953	0.3309	PESEO
									100000	1000
Annual Average	0.0265	0.0745	0.0133	0.1332	0.2862	0.2903	0.2626	0.2963	0.3309	0.3574
Number of theoretical sample periods	09	08	9	09	09	09	8	96	99	09
Number of non operational sample periods	11	11	=	=	11	11	13	Ξ	=	3 =

Ξ

=

^{* -} non operational, data from the North site was used for Wind Direction and Wind Speed, if available

TCEQ Air Mon	TCEQ Air Monitoring Comparison Values (ppb)	Values (ppb)	Investigation
Chemical	ST	LT	Limit (ppb)
Vinyl Chloride	27,000	0.47	25
Ethylene Dichloride	94	0.72	29.7
Benzene	180	1.4	28.2
Ethylene	200,000	30	200
1, 3 Butadiene	1,700	6	25

FORMOSA VOC CANISTER ANALYSIS 4th QUARTER 2018 POINT COMFORT - CITY HALL DUPLICATE SAMPLE SCHEDULE

(epot) (ppb) Actual (ppb) 1/2 Reported LOD (ppb) (ppb) 0.8660 0.6680 0.1660 0.6680 0.6680 1.1600 0.6320 0.6320 0.4600 0.5360 0.5360 0.4600 0.5360 0.5360 0.4600 0.5360 0.6520 0.4600 0.5360 0.0500 0.2300 ND 0.0500 0.4130 0.9900 0.9900 0.4130 0.0900 0.9900 0.4130 0.0500 0.0500 0.0500 ND 0.0500 0.0500 ND 0.0500 0.0500 ND 0.0500 0.0500 ND 0.0500 0.2300 0.430 2.3100 0.5620 2.3100 0.0500 0.5620 2.3100 0.0500 0.5620 2.3100 0.0500 0.6500 0.4320 0.0500 0.1090 ND 0.0500	SAMPLE DATE	AVG.WIND	AVG.WIND	ETH	ETHYLENE	1,3 BU1	1,3 BUTADIENE	BEN	BENZENE	VINYL	VINYL CHLORIDE	ETHVI ENE	ETHYLENE MCHI OBINE
1989 1989		DIRECTION	SPEED (mph)	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD
14 5.4 5.4 ND 0.05500 ND 0.12500 1.1500 0.8600 0.06600	Service and an	(regises)		(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)
Maile Precent Difference (RPD) ND 0.0500 ND 0.1200 1.1600 0.5000 0	02/0/18	*	5.4	QN	0.0500	ND	0.1250	0.8060	0.8060	0.6680	0.6680	GN.	0.0500
1450 1450	02/10/18 _d	3				ND	0.1250	1.1600	1.1600	0.8460	0.8460	Q.	0.0500
14 279	Relativ	e Percent Difference	(RPD)	I	DN	4	AD.	-36		1			ND
146 279 74 ND 0.0590 ND 0.1290 0.5510 0.6510 0													
140 140	03/12/18	279	7.4	QN	0.0500	ND	0.1250	0.5510	0.5510	0.6320	0.6320	QN.	0.0500
146 127 129	03/12/18 _d	279	- 1	QN	0.0500	ND	0.1250	0.4600	0.4600	0.5360	0.5360	01140	0.1140
146 173 ND 0.0500 ND 0.1290 0.2300 ND 0.0500 ND 0.	Relativ	e Percent Difference	(RPD)		QN	2	- Q	18.		1	1		76 0460
146 273 ND 0.0500 ND 0.1290 0.2300 0.2300 ND 0.0500 ND 0.0500													op.
146 146 147 148 149	03/24/18	146	7.7	ND	0.0500	QN	0.1250	0.2300	0.2300	QN	0.0500	C.N.	0.0500
Statistic Percenti Difference (RPD)	03/24/18 _d	146		ND	0.0500	ND	0.1250	0.2310	0.2310	QN	0.0500	2 8	0.0000
Signo Sign	Relativ	e Percent Difference	(RPD)	4	QN.	4	4D		i				NO ON
320 315 315 ND 010500 ND 011250 04130 04130 05000 05900 05900 05900 050000 05000 050000 05000 05000 05000 05000 05000 05000 05000 0500													
Statistic Percent Difference (RPD)	05/05/18	320	3,5	ON	0.0500	ND	0.1250	0.4130	0.4130	00660	0.9900	0.2730	0.7730
114 8.9 ND 0.0560 ND 0.1250 ND 0.0580 ND 0.01250 ND 0.0580 N	05/05/18 _d	320		QN	0.0500	ND	0.1250	0.3700	0.3700	1.2000	1,2000	0.1500	0.1500
114 8.9 ND 0.0500 ND 0.1250 ND 0.0500 ND 0.1250 0.2210 0.2210 ND 0.0500 ND 0.1250 0.2210 0.2310 0.0500 ND 0.1250 0.2310 0.2300 0.2	Relativ	e Percent Difference	(RPD)	4	AD.	4	Q)	10.				U	58.1560
114 8.9 ND 0.0560 ND 0.1250 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.1250 0.2390 0.2390 0.2390 0.2300 0.2300 0.0500 ND 0.1250 0.2380 0.2380 0.2300 0.													
14 8.9 ND 0.0500 ND 0.1250 ND 0.0500 ND 0.1250 0.2380 0.2380 0.2380 ND 0.0500 ND 0.1250 0.2380	06/16/18	114	6.8	QN	0.0500	ND	0.1250	ND	0.0500	ND	0.0500	CIN	0.050.0
153 5.9 ND 0.0500 ND 0.1250 0.2210 0.2210 ND 0.0500 ND 0.1250 0.2210 0.2300 ND 0.0500 ND 0.1250 0.2300 0.2300 ND 0.0500 ND 0.1250 0.2300 0.2	06/16/18 _d	114	- 1	QN	0.0500	ND	0.1250	ND	0.0500	ND	0.0500	QN	0.0500
153 5.9 ND 0.0500 ND 0.1250 0.2210 ND 0.0500 ND 0.1250 0.2210 0.2210 ND 0.0500 ND 0.1250 0.2380 ND 0.0500 ND 0.1250 0.2380 0.2380 0.2380 0.2300 0.2	Relativ	e Percent Difference	(RPD)	~	CD	_	D CD		Q.				CIN
153 5.9 ND 0.0500 ND 0.1250 0.2380 0.2380 ND 0.0500 ND 0.0500													
133 5.9 ND 0.0500 ND 0.1250 0.2380 ND 0.0500 ND 0.	07/16/18	153	5.9	ND	0.0500	ND	0.1250	0.2210	0.2210	ND	0.0500	0.1760	0 1760
Relative Percent Difference (RPD) ND ND 0.1250 0.5390 0.5390 2.3200	07/16/18 _d	153		ND	0.0500	ND	0.1250	0.2380	0.2380	ND	0.0500	0.1720	0.1720
65 2.2 ND 0.0500 ND 0.1250 0.5390 0.5390 2.3200	Relativ	e Percent Difference	(RPD)	4	9	4	1D	.7.	4074				2 2/380
6.5 2.2 ND 0.0500 ND 0.1250 0.5390 0.5390 2.300													
Relative Percent Difference (RPD) ND ND ND ND ND AD 4.1780 0.5620 0.5620 2.3100 2.31	09/30/18	65	2.2	QN	0.0500	QN	0.1250	0.5390	0.5390	2.3200	2,3200	1,2400	1.2400
Relative Percent Difference (RPD) ND ND ND A1750 O-1320 Alative Percent Difference (RPD) *	09/30/18 _d	65	- 1			QN	0.1250	0.5620	0.5620	2,3100	2,3100	1,1400	1.1400
334 6,2 * * * * * * * * *	Relativ	e Percent Difference	(RPD)	4	Q.	4	(D)	-4.	1780	0,0	1320		8.4034
324 6.2 *													
Aclastive Percent Difference (RPD) *	11/01/18	324	6.2	*	×	*	н	†e	*	*	be-	*	*
telative Percent Difference (RPD) *	11/01/18 _d	324	1	*	м	H	ж	м	*	*	*	*	
106 5.9 ND 0.0500 ND 0.1250 0.1050 ND 0.0500	Relativ	e Percent Difference	(RPD)		*		*		*		*		10
106 5.9 ND 0.0500 ND 0.1250 0.1050 0.1050 ND 0.0500 ND ND ND ND ND ND ND													
106 5.9 * * * * * * * * * * * * * * * * * * *	12/25/18	106	5.9	QN	0.0500	ND	0.1250	0.1090	0.1090	QN	0.0500	GN	0.0500
Relative Percent Difference (RPD) *	12/25/184	106		+	*	34	×	*	Æ	*	*	*	*
	Relativ	e Percent Difference	(RPD)		*								

x - non operational, data from the North site was used for Wind Direction and Wind Speed, if available

FORMOSA VOC CANISTER ANALYSIS 4th QUARTER 2018 POINT COMFORT - FORMOSA TRAINING COMPLEX

SAMPLE DATE	AVG,WIND	AVG.WIND			1,3807	L,3 BUTADIENE	REP	BENZENE	VINYL	VINYL CHLORIDE	ETHYLENE	ETHYLENE DICHLORIDE
	(Degrees)	SPEED (mph)	Actual (ppb)	1/2 Reported LOD	Actual (ppb)	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD
1/5/2018	17.	5.0	4			*	(add)	(hbha)	(add)	(qdd)	(qdd)	(qdd)
1/11/2018	302	8.9	*	*	*	*	*	*				
1/17/2018	311	4.2	*		1		,			*		*
1/23/2018	275	4.0	QN.	0.0500	QN	0.1250	0.5740	0.5740	0.6610	0.6610	QX	0.0500
1/29/2018	341	5.6	ON.	0.0500	QN	0.1250	0.1420	0.1420	CIN	0.0500	Q.	0.0500
2/4/2018	161	5.2	QN	0.0500	QN	0.1250	0.4520	0.4520	0.2290	0.2290	0.1430	0.1430
2/10/2018	218	3.8	QN .	0.0500	ON	0.1250	0.5940	0.5940	0.8710	0.8710	ND	0.0500
2/16/2018	147	5.1	ND	0.0500	QN	0.1250	0.1250	0,1250	QN	0.0500	2.9300	2.9300
2/22/2018	315	6.2	*	*	×	H		*			*	
272872018	145	10.1	Q.	0.0500	0.371	0.3710	1.8500	1.8500	ON	0.0500	0.1300	0.1300
3/6/2018	211	8.3	GN	0.0500	ND	0.1250	0.9270	0.9270	1.5500	1.5500	0.2600	0.2600
3/17/2018	279	7.4	ND	0.0500	QN	0.1250	0,4440	0.4440	0.1130	0.1130	Q.	0.0500
5/18/2018	125	5,4	ND ND	0.0500	ND	0.1250	0.2560	0.2560	QN	0.0500	QN.	0.0500
3/24/2018	146	7.7	ND	0.0500	QN	0.1250	0.2090	0.2090	QN	0.0500	0.1270	0.1270
3/30/2018	126	7.1	QN.	0.0500	QN	0.1250	0.5750	0.5750	0.6040	0.6040	QN	0.0500
4/5/2018	96	5.6	2	0.0500	QN	0.1250	0.2700	0.2700	0.3370	0.3370	0.3560	0.3560
4/11/2018	114	4.4	ON	0.0500	ON	0.1250	0.3620	0.3620	0.4940	0.4940	0.5740	0.5740
4/17/2018	144	7.6	QV.	0.0500	ND	0.1250	0.1600	0.1600	ON	0.0500	0.1270	0.1270
4/23/2018	243	1.2	ON	0.0500	ND	0.1250	0.3330	0.3330	1.3800	1.3800	0.3610	0.3610
4/29/2018	901	5.5	ND	0.0500	ND	0.1250	0.1080	0.1080	QN	0.0500	ON.	0.0500
5/5/2018	320	3.5	QN	0.0500	ND	0.1250	0.1030	0.1030	ND	0.0500	QN	0.0500
5/11/2018	122	1.6	QN	0.0500	ON	0.1250	0.1170	0.1170	ON	0.0500	QN	0.0500
5/17/2018	159	0.9	ND	0.0500	QN	0.1250	0.1250	0.1250	ND	0.0500	QN	0.0500
5/23/2018	96	5.2	*		*		ž	*	*	*	*	
5/29/2018	144	5.2	S	0.0500	ND	0.1250	0.1380	0.1380	ND	0.0500	0.1160	0.1160
6/4/2018	169	4,4	ON	0.0500	ND	0.1250	N N	0.0500	Ð.	0.0500	0.1160	09110
6/10/2018	140	8.8	ND	0.0500	QN.	0.1250	0.1450	0.1450	QN	0.0500	0.3220	0.3220
6/16/2018	114	6.8	ND	0.0500	ND	0.1250	QN	0.0500	QN	0.0500	ND	0.0500
6/22/2018	151	4.9	QN	0.0500	ND	0.1250	0.1790	0.1790	QN	0.0500	0.1930	0.1930
6/28/2018	143	7.0	QN	0.0500	ND	0.1250	0.1490	0.1490	ND	0.0500	0.3960	0.3960
7/4/2018	126	7.1			*			,			*	*
7/10/2018	121	4.6	ND	0.0500	ND	0.1250	0.2370	0.2370	ND	0.0500	QN	0.0500
7/16/2018	153	5.9	QN	0.0500	ND	0.1250	0.2580	0.2580	ND	0.0500	0.1030	0.1030
4000000	176	2.7	QN	0.0500	QN	0.1250	0.1080	0.1080	ND	0.0500	0.1330	0.1330
6/2/2/016	133	4.0	ON E	0.0500	QN.	0.1250	0.1810	0.1810	QN	0.0500	ND	0.0500
8707018	38.	3.5	Q 9	0.0500	QN .	0.1250	0.2720	0.2720	1.6000	00091	0.1470	0.1470
8/12/2018	135	0.0	G. G.	0.0500	ON ON	0.1250	Q S	0.0500	ND	0.0500	0.1350	0.1350
8/21/2018	155	5.4	GN.	0.0500	ON ON	0.1250	ND	0.0500	QN	0.0500	0.2690	0.2690
8/29/2018	121	43	GN.	0.0500	ON ON	0.000	0.1340	0.1340	GN	0.0500	QN	0.0500
9/6/2018	16	30	QX	0.0500	GN	01050	0.3340	0.2240	ND	0.0000	0.1020	0.1020
9/12/2018	09	46	O.W.	0.0500	di.	0.1530	0.0000	0.5540	0.7480	0.7480	1,2500	1.2500
9/18/2018	187	1.3	a .	0.0300	ON.	0.1250	QN *	0.0500	QN ,	0.0500	0,1140	0.1140
9/24/2018	115	4.5	QN	0.0500	GN.	01340	0.1860	0.940	- GIV	0.0000		*
9/30/2018	65	2.2	Q	0.0500	2	0.1250	0.6860	0.0000	ON C	0.0300	ON	0.0500
10/6/2018	126	11	*	*	9.	0.1230	0.0000	0.6890	2.7400	2.7400	2.2600	2.2600
10/12/2018	××	1.5	NO.	71,0670		2000	0.000			*	*	*
10/18/2018	343	49	1 7200	1 2200	2 2	0.1250	0.4090	0,4090	1.3300	1.3300	3.9700	3,9700
10/26/2018	249	1.5	*	*	*	W1230	W.251U	0.5310	1.3900	1.3900	S	0.0500
11/1/2018	324	6.2	*			*	*	. *	,	* *		
11/11/2018	24	6.2	QN.	0.0500	QN	0.1250	0.5490	0.5490	06290	0,6790	0.3080	08000
11/17/2018	88	4.5	ND ND	0.0500	Q.	0.1250	0.1320	0.1320	OK/90	0.0500	0.528U	0.3280
						2000	Vetran	Version	TIM	OUCUA.	IND	0.0500

FORMOSA VOC CANISTER ANALYSIS 4th QUARTER 2018 POINT COMFORT - FORMOSA TRAINING COMPLEX

Direction Steed Imph Direction Steed Imph Direction Steed Imph Direction Steed Imph Direction	Actual (ppb)		The section	1,3 BUI ADIENE	BE	BENZENE	VINYL	VINYL CHLORIDE	ETHYLENE	ETHYLENE DICHLORIDE
46 0.4 145 3.2 240 2.7 102 1.9 135 6.7 116 5.9 334 4.2	2	1/2 Reported LOD (ppb)	Actual (ppb)	1/2 Reported LOD (ppp)	Actual (nob)	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD
145 3.2 240 2.7 102 1.9 135 6.7 15 1.7 106 5.9 334 4.2	-	0.0500	Q.	0.1750	0.3610	01300	Code	(hhd)	(add)	(add)
240 2.7 102 1.9 235 6.7 1.5 1.7 106 5.9 334 4.2		00000	0000	00000	0.020	0.2010	0.7120	0./120	0.6110	0.6110
240 2.17 102 1.9 235 6.7 15 1.7 106 5.9 334 4.2	THE STATE OF THE S	0,000	0.272	0.2720	0.4590	0.4590	QN	0.0500	0.3840	0.3840
102 1.9 235 6.7 15 1.7 16 5.9 334 4.2	2	0.0500	ND	0.1250	0.2100	0.2100	QN	0.0500	S.	0.050.0
235 6.7 15 1.7 106 5.9 334 4.2 Year-To-Date Sum	*	*	to the	*	*	*	*	*		Oncorn.
15 1.7 1.7 1.06 5.9 3.34 4.2 4.2	N N	0.0500	EN C	01250	01570	01530	M.	00000		
106 5.9 334 4.2 Year-To-Date Sum	S	0.0500	S	03610	0.7440	0,000	ON!	0.000	QN	0.0500
334 3.5 334 4.2 Year-To-Date Sum		00000		0.1530	0.440	0.2440	0.1320	0.1320	0.4010	0.4010
S34 4.2	ND	0.0500	GN	0.1250	0.1430	0.1430	Q	0.0500	QN	0.0500
	ND	0.050.0	QN	0.1250	0.2340	0.2340	QN	0.0500	ND	0.0500
	FTHV	ETHVI ENE	THE PERSON NAMED IN	1 3 DI PADITANE	100	10000000				
		- CEINE	Od car	ADIENE	BE.	BENZENE	VINYL	VINYL CHLORIDE	ETHYLENE	ETHYLENE DICHLORIDE
	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD
	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(pdd)	(qdd)	(pag)
	1.2200	3.6200	0.6430	6.5180	14.0650	14.3650	15.5700	17.1700	16.3580	17.4080
Rolling Year Average	0.0249	0.0739	0.0131	0.1330	0.2870	0.2932	0.3178	0.3504	0 3338	0.3553
Annual Average 0	0.0249	0.0739	0.0131	0.1330	0.2870	0.2932	0.3178	0.3504	0.3338	0.3553
Transfer of the control of the contr	5	,							Bronn	CCCC'O
remined of dicoletical sample periods	09	09	09	09	09	09	09	09	09	09
Number of non operational sample periods	=	11	11	11	=	1	11	11		

^{* -} non operational, data from the North site was used for Wind Direction and Wind Speed, if available

TCEQ Air Mon	TCEQ Air Monitoring Comparison Values (ppb)	ilues (ppb)	Investigation
Chemical	LS	LT	Limit (ppb)
Vinyl Chloride	27,000	0.47	25
Ethylene Dichloride	94	0.72	29.7
Benzene	180	1.4	28.2
Ethylene	500,000	30	200
1, 3 Butadiene	1.700	6	36

FORMOSA VOC CANISTER ANALYSIS 4th QUARTER 2018 POINT COMFORT - FORMOSA TRAINING COMPLEX DUPLICATE SAMPLE SCHEDULE

STREED (mph)	SAMPLE DATE	AVG.WIND	AVG.WIND	ETH	ETHYLENE	1,3 BU	1,3 BUTADIENE	BE	BENZENE	VINYL	VINYL CHLORIDE	FTHVIENE	INCUI OPIDE
1972 1972		DIRECTION	SPEED (mph)	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD
1971 512 512 ND 0.03600 ND 0.1250 0.45200 0.6220	2000	(Saaifact)		(gdd)	(qdd)	(qdd)	(gdd)	(qdd)	(pdd)	(qdd)	(qdd)	(qdd)	(looh)
1979 1970	02/04/18	197	5.2	QN	0.0500	ND	0.1250	0.4520	0.4520	0.2290	0.7200	0.1430	OCKLO
Autore Percent Difference (RPD) Autore CRD) Autore C	02/04/18d	197	5.2	QN	0.0500	ND	0.1250	0.8140	0.8140	0375.0	0.000	0.1400	0.1430
State Stat	Relati	ve Percent Difference	e (RPD)		L			Т	i		ш	0.2240	0.2240
211 8.3 ND 0.0500 ND 0.1250 0.9570 1.5500 1.5500 0.2500 0.2500							The state of the s	7	7.1880	-3	14,9550	44-	.1417
211 8.3 ND 0.0500 ND 0.1250 0.9270 0.9270 1.5500 1.5500 0.2500	Contract to the		1										
176 27 27 28 27 28 28 28 28	03/06/18	211	8.3	ND Q	0.0500	ON	0.1250	0.9270	0.9270	1.5500	1,5500	009600	0.000
176 27 27 27 27 27 27 27	03/06/18d	211	- 1	QN	0.0500	ND	0.1250	0.9640	0.9640	1.6900	0.0691	0.396.0	O Suco
176 57 ND 0.0560 ND 0.1250 0.1190 0.1190 ND 0.0560 ND 0.1250 0.1190 0.1190 ND 0.0560 0.1130 0	Relati	ve Percent Difference	e (RPD)		ND		Đ.	57	1	Г		1	1.
176 5.7 ND 0.0500 ND 0.1250 0.1190 0.1080 ND 0.0500 ND 0.1330 0.1130 176 5.7 ND 0.0500 ND 0.1250 0.1150 0.1190 ND 0.0500 0.1350 0.1130 138 5.6 ND 0.0500 ND 0.1250 ND 0.0500 ND 0.0500 0.1350 0.1350 138 5.6 ND 0.0500 ND 0.1250 ND 0.0500 ND 0.0500 0.1350 138 5.6 ND 0.0500 ND 0.1250 ND 0.0500 ND 0.0500 0.1350 4.6 ND 0.0500 ND 0.1250 ND 0.0500 ND 0.0500 ND 0.0500 4.6 ND 0.0500 ND 0.1250 ND 0.0500 ND 0.0500 0.1140 5.6 4.6 ND 0.0500 ND 0.1250 ND 0.0500 ND 0.0500 ND 0.0500 5.6 4.5 ND 0.0500 ND 0.1250 ND 0.0500 ND 0.0500 ND 0.0500 5.6 4.5 ND 0.0500 ND 0.1250 ND 0.0500 ND 0.0500 0.1140 5.6 4.5 ND ND 0.1250 ND 0.0500 ND 0.0500 0.1140 5.6 4.5 ND 0.0500 ND 0.1250 0.4390 1.3900 0.1300 ND 5.6 4.5 A.5 A.5 A.5 A.5 A.5 A.5 A.5 A.5 5.6 4.5 A.5 A.5 A.5 A.5 A.5 A.5 A.5 A.5 5.6 4.5 A.5 5.6 4.5 A.5 5.6 4.5 A.5 5.6 4.5 A.5 5.6 4.5 A.5 5.6 4.5 A.5 A.5											D. Carrette	6.	2728
176 176	07/22/18	176	5.7	QN	0.0500	QN	01350	0.1080	0 1000	Oly	0.0400		
138 5.6 ND 0.0500 ND 0.1250 ND 0.0500 0.1130 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 0.1130 ND 0.0500 0.1130 ND 0.0500 ND 0.0500 0.1130 ND 0.0500 ND 0.0500 0.1130 ND 0.0500 ND 0.0500 ND 0.0500 0.0500 ND 0.0500 ND 0.0500 0.0500 ND 0.0500 ND 0.0500 0.0500 ND 0.0500 0.0500 ND 0.0500 ND 0.0500 0.0500 ND 0.0500 ND 0.0500 0.0500 ND 0.0500 0.0500 0.0500 ND 0.0500 ND 0.0500 0.0500 ND 0.0500 ND 0.0500 0.0500 ND 0.0500 0.0500 ND 0.0500 0.0500 0.0500 ND 0.0500 0.0500 ND 0.0500 0.0500 0.0500 0.0500 ND 0.0500 0.0500 0.0500 0.0500 ND 0.0500 0.0500 0.0500 ND 0.0500 0.0500 ND 0.0500 0.0500 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 0.0500 ND 0.0500 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 0.0500 ND 0.0500 ND 0.0500 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500	07/22/18d	176	5.7	GN	0.0500	div.	0.000	CTOOL	0.1090	IND	0.0500	0.1330	0.1330
138 5.6 ND 0.0500 ND 0.1250 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 0.1350 ND 0.0500 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 0.0500 ND 0.0500 ND 0.0500 0.0500 0.0500 ND 0.0500 0.0500 0.0500 ND 0.0500 0.0500 0.0500 ND 0.0500 0.050	Dolost.	D D. O.	1	ľ	ı		1	0.1190	0.1190	ND	0.0500	0.1490	0.1490
138 5.6 ND 0.0500 ND 0.1250 ND 0.0500 ND 0.0500 ND 0.0500 0.1350 ND 0.0500 ND 0.0500 0.1350 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.1350 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.1300 0.130 ND 0.0500 0.0500 ND 0.0500 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 0.0500 ND 0.0500 0.0500 ND 0.0500 N	Relati	ve rereem Difference	e (KPD)		QN	_	Q.	6-	9169		QN	7	
138 5.6 ND 0.0500 ND 0.1250 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 0.1350 0.1350 A													
138 5.6 ND 0.0500 ND 0.1250 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 0.1300 0.1300	08/09/18	138	5.6	ND	0.0500	QN	0.1250	QN	0.0500	CN.	0.0500	0 1360	0 0000
Column C	08/09/18d	138	5.6	ND	0.0500	QN	0.1250	S	0.0500	GN GN	0.0500	0.1330	0.1350
Feb	Relativ	ve Percent Difference	(RPD)		NO.		l			AV.	1		- 1
60 4.6 ND 0.0500 ND 0.1250 ND 0.0500 ND 0.0500 0.1140 0.0130 felative Percent Difference (RPD) 4.6 ND 0.0500 ND 0.1250 ND ND 0.130 0.0									ND ON		QN	-25	8065
Felative Percent Difference (RPD) Control of the control of th	81/21/8	099	46	CEN	0.0500	Gi ²	0.000	400					
Selative Percent Difference (RPD) ND 0.1250 ND ND 0.0500 0.11300 ND 0.11300 ND 0.11300 0.11300 ND 0.11300 0.11300 ND 0.11300 0.11300	D811/C1/60	59	16	NIN.	0.0500	ON.	0.1.20	ON	0.0500	Q.	0.0500	0.1140	0.1140
Same Name (N.D.) ND ND ND ND ND ND ND N	Polatic	to Dorsont Difference		I				QN	0.0500	ND	0.0500	0.1130	0,1130
343 4.9 1.2200 1.2200 ND 0.1250 0.5310 1.3900 1.3900 ND 343 4.9 0.5900 0.5900 ND 0.1250 0.4390 0.4390 1.3400 ND Islante Percent Difference IRPD)	THE STATE OF THE S	TO LECOME DIRECTOR	(NID)		ND	4	0		ND		ND	0.	8811
343 4.9 1,2200 1,2200 ND 0,1250 0,5310 1,3900 ND 343 4.9 0,5900 0,5900 ND 0,1250 0,4390 0,4390 1,3400 1,3400 ND telative Percent Difference (RPD) 69,6133 ND ND 18 0601 3 6200 ND 1,3400 ND <													
343 4.9 0.5900 0.5900 ND 0.1250 0.4390 0.4390 1.3400 ND 1.8001 1.8001 1.3400 ND 1.8001 1.8001 1.3400 ND	10/18/18	343	4.9	1.2200	1.2200	QN	0.1250	0.5310	0.5310	1.3900	1 3000	CN	0.0500
(9) 6333 ND 18 9601 3,4250	10/18/18 _d	343		0.5900	0.5900	ND	0.1250	0.4390	0.4390	1.3400	1.3400	S	0.0500
	Relativ	ve Percent Difference	; (RPD)	(69)	6133	_	9	91	L	П	L		ı

d - Duplicate sample taken in addition to the routine sample (See Calculation Methodology for information on inclusion of duplicate sample results.)

^{* -} non operational, data from the North site was used for Wind Direction and Wind Speed, if available

FORMOSA VOC CANISTER ANALYSIS 4th QUARTER 2018 POINT COMFORT - PARK SITE

SAMPLE DATE	AVG.WIND	AVG.WIND	ЕТН	ETHYLENE	1,3 BU	1,3 BUTADIENE	BEN	BENZENE	VINYLO	VINYL CHLORIDE	ETHYLENE	ETHYLENE DICHLORIDE
	DIRECTION	SPEED (mph)	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD
	(Degrees)		(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(ppb)	(qdd)
1/5/2018	71	5.0	*	*	*	*	*	*	*	*	*	*
1/11/2018	202	8.9	*	*	*	*	*	*	*	*	*	*
1/17/2018	311	4.2	*	*	*	*	*	*	*	*	*	*
1/23/2018	275	4.0	ND	0.0500	ND	0.1250	0.4990	0.4990	0.7540	0.7540	QN	0.0500
1/29/2018	341	5.6	QN	0.0500	ND	0.1250	0.2730	0.2730	ND	0.0500	ND	0.0500
2/4/2018	197	5.2	QN	0.0500	QN	0.1250	0.2950	0.2950	0.2240	0.2240	ND	0.0500
2/10/2018	218	3.8	ND	0.0500	ΩN	0.1250	0.3350	0.3350	0.3040	0.3040	ND	0.0500
2/16/2018	147	5.1	ND	0.0500	ΩN	0.2500	0.1040	0.1040	ND	0.0500	ND	0.0500
2/22/2018	315	6.2	ND	0.0500	ND	0.1250	0.5570	0.5570	2.6200	2.6200	ND	0.0500
2/28/2018	145	10.1	ND	0.0500	ΩN	0.1250	1.0400	1.0400	ND	0.0500	0.1050	0.1050
3/6/2018	211	8.3	ND	0.0500	ND	0.1250	0.6710	0.6710	1.1100	1.1100	0.2140	0.2140
3/12/2018	279	7.4	ND	0.0500	ΩN	0.1250	0.4470	0.4470	0.4200	0.4200	0.3760	0.3760
3/18/2018	125	5.4	ND	0.0500	ND	0.1250	0.1820	0.1820	ND	0.0500	ξ	0.0500
3/24/2018	146	7.7	QN	0.0500	ND	0.1250	0.2610	0.2610	QN	0.0500	ΩN	0.0500
3/30/2018	126	7.1	ND	0.0500	Q	0.1250	0.3940	0.3940	1.0300	1.0300	ΔN	0.0500
4/5/2018	96	5.6	ND	0.0500	QN	0.1250	0.2170	0.2170	1.3200	1.3200	1.2200	1.2200
4/11/2018	114	4.4	ND	0.0500	Q	0.1250	0.5800	0.5800	1.4100	1.4100	1.1100	1.1100
4/17/2018	144	9.7	ΩN	0.0500	Q	0.1250	0.2230	0.2230	ND	0.0500	ND	0.0500
4/23/2018	243	1.2	ND	0.0500	QN	0.1250	0.5180	0.5180	0.3960	0.3960	ND	0.0500
4/29/2018	106	5.5	ND	0.0500	ΩN	0.1250	0.2900	0.2900	ND	0.0500	0.1550	0.1550
5/5/2018	320	3.5	ND	0.0500	ND	0.1250	ND	0.0500	ND	0.0500	ΩN	0.0500
5/11/2018	122	9.1	ND	0.0500	Q	0.1250	0.1190	0.1190	ND	0.0500	ND	0.0500
5/17/2018	159	0.9	ND	0.0500	ΩN	0.2500	0.1250	0.1250	ND	0.0500	ΩN	0.0500
5/23/2018	96	5.2	*	*	*	*	*	*	*	*	*	*
5/29/2018	144	5.2	QN	0.0500	NΩ	0.1250	QN	0.0500	ND	0.0500	0.1840	0.1840
6/4/2018	169	4.4	ND	0.0500	ΩN	0.1250	0.1130	0.1130	0.1540	0.1540	0.1630	0.1630
6/10/2018	140	8.8	QN	0.0500	NΩ	0.1250	QN	0.0500	ND	0.0500	0.1360	0.1360
6/16/2018	114	8.9	ND	0.0500	ND	0.1250	ΩN	0.0500	ND	0.0500	ND	0.0500
6/22/2018	151	4.9	ND	0.0500	ΩN	0.1250	0.1380	0.1380	ND	0.0500	0.2250	0.2250
6/28/2018	143	7.0	QN	0.0500	ΩN	0.1250	ΩN	0.0500	ND	0.0500	ND	0.0500
7/4/2018	126	7.1	Q	0.0500	ΩN	0.1250	0.3940	0.3940	1.0300	1.0300	ΝD	0.0500
7/10/2018	121	4.6	Q	0.0500	QN	0.1250	0.1750	0.1750	ND	0.0500	ND	0.0500
7/16/2018	153	5.9	S	0.0500	Q.	0.1250	0.1600	0.1600	ND	0.0500	0.1010	0.1010
7/22/2018	176	5.7	QN	0.0500	QN	0.1250	0.1020	0.1020	ND	0.0500	ND	0.0500
7/28/2018	133	4.0	Q	0.0500	ΩN	0.1250	0.2490	0.2490	0.2380	0.2380	0.6500	0.6500
8/3/2018	107	4.1	S	0.0500	ΩN	0.1250	0.3470	0.3470	1.1700	1.1700	0.6730	0.6730
8/9/2018	138	9.6	ND	0.0500	Q.	0.1250	QN	0.0500	ND	0.0500	ND	0.0500
8/17/2018	135	0.9	QN	0.0500	ND	0.1250	0.1150	0.1150	ND	0.0500	ND	0.0500
8/21/2018	155	5.4	Q	0.0500	QN QN	0.2500	ΩN	0.0500	ND	0.0500	ND	0.0500
8/29/2018	121	4.3	QN	0.0500	QN	0.1250	0.1940	0.1940	ND	0.0500	0.1040	0.1040
9/6/2018	91	1.8	ND	0.0500	ΩN	0.1250	0.1080	0.1080	0.3670	0.3670	0.1590	0.1590
9/12/2018	09	4.6	*	*	*	*	*	*	*	*	*	*
9/18/2018	187	1.3	ND	0.0500	ND	0.1250	0.5080	0.5080	ND	0.0500	0.3570	0.3570
9/24/2018	115	4.5	*	*	*	*	*	*	*	*	*	*
9/30/2018	65	2.2	*	*	*	*	*	*	*	*	*	*

FORMOSA VOC CANISTER ANALYSIS 4th QUARTER 2018 POINT COMFORT - PARK SITE

SAMPLE DATE	AVG.WIND	AVG.WIND	ETH	ETHYLENE	1,38(1,3 BUTADIENE	BEN	BENZENE	VINYLC	VINYL CHLORIDE	ETHYLENE	ETHYLENE DICHLORIDE
	DIRECTION (Degrees)	SPEED (mph)	Actual (ppb)	1/2 Reported LOD (ppb)	Actual (ppb)	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD
10/6/2018	126	7.1	*	*			*	*	(odd)	(add)	(add)	(gdd)
10/12/2018	300	5.1	QN	0.0500	GN	01250	0.2730	0.5730	0000	COCK C	2 000	*
10/18/2018	343	4.9	0.5680	0.5680	GN.	05010	0.8150	05150	20500	2,7200	7.5000	7,3000
10/26/2018	249	51	0.5910	0.5010	UN	0.1050	00100	0.0100	7.0000	2.0000	0.1260	0.1260
11/1/2018	PCE	67	ON	00000	9	00000	0.2100	0.2160	ND.	0,0000	QN	0.0500
0100001	-	0.0	ON.	0.0500	UN	0.1250		0.0000	0.2380	0.2380	0.6500	0.6500
11772018	157	4.8	ND	0.0500	QN	0.1250	ND	0.0500	ND	0.0500	QN	0.050.0
11/13/2018	321	7.6	QN	0.0500	ND	0.1250	0.1430	0.1430	QN	0.0500	CN	0.050.0
11/17/2018	88	4.5			*	,	*		*			nonnon .
11/25/2018	316	3.0	ND	0.0500	QN.	01050	0.4350	0.4350	0.4050	0.4020	00000	Comment of
12/1/2018	240	2.7	ND	0.0500	GN	05610	0.1660	0.1660	NIO.	0,4050	0.7760	0.7780
12/7/2018	102	1.9	QN	0.0500	QZ	0.1250	0.2060	0.3060	G GN	00000	ON	0.0500
12/13/2018	235	6.7	QN	0.0500	QN	0.1250	01180	01180	CN CN	00000	ON ON	0.0500
12/19/2018	15	1.7	ND	0.0500	ON	0,1250	0.2070	0.202.0	03010	0.3010	0.0000	0.0000
12/25/2018	106	5.9	ND	0.0500	QN	0.1250	0.1430	0.1430	CN	0.0500	WD	0.0500
12/31/2018	254	3.2	ND	0.0500	QN	0.1250	0.2350	0,2350	S	0.0500	CN	0.0500

	ETI	ETHYLENE	13.80	1,3 BUTADIENE	BEN	BENZENE	VINYLC	VINYLCHLORIDE	FTHYLRNE	ETHYLENE DICHLORIDE
	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Renorted LOD
	(qdd)	(qdd)	(pdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qaa)	(quit)	(quu)
Year-To-Date Sum	1.1590	3.6090	0.0000	6.7500	12,6900	13.0900	18.2710	19.8210	15 7760	0926.21
									And I was	0012:11
Rolling Year Average	0.0227	0.0708	00000	0.1324	0.2488	0.2567	0.3583	AXXF ()	\$005.0	7326.0
Account Australy	10000	00000	00000					000000	COCCO COCCO	0.3301
Olinai Avelago	7770'0	0.0708	0.0000	0.1324	0.2488	0.2567	0.3583	0.3886	0,3093	0.3387
Number of theoretical sample periods	09	09	09	8	S	9	9	9	Ş	Ş
Number of non operational sample periods	\$	6	6	3	6	· 0^	6	3 0	3 0	3 0
										6

^{* -} non operational, data from the North site was used for Wind Direction and Wind Speed, if available

TCEQ Air Monit	TCEQ Air Monitoring Comparison Values (ppb)	ilues (ppb)	Investigation
Chemical	ST	LT	Limit (ppb)
Vinyl Chloride	27,000	0.47	25
Ethylene Dichloride	94	0.72	29.7
Benzene	180	1.4	28.2
Ethylene	900,000	30	200
1, 3 Butadiene	1,700	6	25

FORMOSA VOC CANISTER ANALYSIS 4th QUARTER 2018 POINT COMFORT - PARK SITE DUPLICATE SAMPLE SCHEDULE

01/23/18 01/23/18 ₃ Relative Per 02/28/18			BIR	ETHYLENE	1,3 BUT	1,3 BUTADIENE	BEN	BENZENE	VINVI.	VINVI. CHI.ORIDE	BTRVI ENE	ETHYLENE MCM. OPING
01/23/18 01/23/18 ₃ Relative Per 02/28/18	DIRECTION	SPEED (mph)	Actual	1/2 Reported LOD	Actual	1/2 Reported I.OD	_	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD
01/23/18 Relative Per 02/28/18	(Degrees)		(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)
01/23/18, Relative Per 02/28/18	273	4.0	QN	0.0500	QN	0.1250	0.4990	0.4990	0.7540	0.7540	QN	0.0500
Relative Per 02/28/18 02/28/18	275	4.0	ND	0.5000	ND	0.1250	0.5020	0.5020	0.7230	0.7230	GN.	0.0500
02/28/18	Relative Percent Difference (RPD)	(RPD)		ND	2	ND	-0-	0.5994		4.1977		ON
02/28/18												
02/28/18.	145	10.1	QN	0.0500	ND	0.1250	1.0400	1.0400	S	0.0900	0 1050	0.1060
0	145	10.1	ND	0.0500	ND	0.1250	1.1200	1.1200	QV	0.0500	0.1440	0.1030
Relative Per	Relative Percent Difference (RPD)	(RPD)		ND	2	QN	-7.	-7,4074	Г	ND		31 3243
												Comp.
07/28/18	133	4.0	ND	0.0500	ON	0.1250	0.2490	0.2490	0.2380	0.7380	0.6500	0.6500
07/28/18 _d	133	4.0	QN	0.0500	ND	0.1250	0.2500	0.2500	0.2350	0.2350	0.6380	00000
Relative Per	Relative Percent Difference (RPD)	(RPD)		ND	-	ND		-0 4008		30%	ı	
											1.0	1.0034
08/29/18	121	4.3	QN	0.0500	QN QN	0.1250	0.1940	0.1940	GN	0.050.0	0 1040	0 1040
08/29/18 _d	121	4.3	ND	0.0500	ND	0.1250	ND	0.0500	QN .	00200	0 1080	0.1080
Relative Per	Relative Percent Difference (RPD)	(RPD)		ND	2	DN	118	118.0328		GN GN		3 7736
												001
81/81/60	187	1.3	ND	0.0500	ND	0.1250	0.5080	0.5080	CN	0.050.0	0.252.0	0.35.0
09/18/18 _g	187	1.3	QN	0.0500	ND	0.1250	0.5940	0.5940	QN	0.0500	0.2850	0.3830
Relative Per	Relative Percent Difference (RPD)	(RPD)	a	QN	V	ND	-15	-15.6080		ND		23.4747
10/14/18	123	7.0	QN	0.0500	ND	0.1250	0.2730	0.2730	2.7200	2,7200	7.3000	7 3000
10/14/18 _d	123	7.0	*	*	м	**	*	*	*	*	н	N
Relative Per	Relative Percent Difference (RPD)	(RPD)		*		*		*		*		-11
12/07/18	102	1.9	ND	0.0500	ND	0.1250	0.2060	0,2060	ND	0.0500	QN.	0.0500
12/07/18 _d	102	1.9	#	4	4	×	ŀ	*	H	я	*	*
Relative Per	Relative Percent Difference (RPD)	(RPD)		*		*		*		*		10

d - Duplicate sample taken in addition to the routine sample (See Calculation Methodology for information on inclusion of duplicate sample results.)

non operational, data from the North site was used for Wind Direction and Wind Speed, if available

AVG.WIND AVG.WIND DIRECTION SPEED (mph)	Actual	ETHYLENE 1/2 Reported LOD	1,3 BUT	1,3 BUTADIENE	BEN	BENZENE	VINYLC	VINYL CHLORIDE		ETHYLENE DICHLORIDE
(qdd)	(qdd)		(qdd)	(qdd)	(ppb)	U.z Reported L.U.Z	Actual (ppb)	1/2 Keported LOD	Actual (nph)	1/2 Reported LOD
8.7 ND	0.0500		ND	0.1250	0.4340	0.4340	0.1340	0.1340	(add)	(add)
5.1	0.0500		Đ.	0.1250	0.1280	0.1280	£	0.0500	2	0.0500
* * * * * * * * * * * * * * * * * * *	*		* 5	*	*	*	*	*	*	*
S.6	0.0500		2 2	0.1250	0.1080	0.1080	QN	0.0500	Ð	0.0500
0N 8.9	0.0500		ND	0.1250	0.1960	0.1960	O.C.O.	0.0500	0.3910	0.3910
ON 6.9	0.0500		QN.	0.1250	0.9340	0.9340	1.5400	1.5400	1.7900	1.7900
ON 9.5	0.0500	- 1	9	0.1250	0.1030	0.1030	QN	0.0500	0.1370	0.1370
79 NN 0.5000	0.5000	+	2 2	0.1250	1.2900	1.2900	1.0200	1.0200	0.1850	0.1850
CN 27	00000	+	2 2	0.120	0.5730	0.5730	2.6500	2.6500	2.6000	2.6000
275 4.0 ND 0.0500	0.0500	+	2	0.1250	0 6400	0.0500	ND 0.4360	0.0500	Q S	0.0500
6.3 10.5000	10.5000		Ð	0.7500	1.2400	1.2400	3.5900	3 5900	0.3610	0.3610
5.4500	5.4500		Ø	0.7500	1.5600	1.5600	1.6800	1.6800	6.9100	6.9100
5.6 ND	0.0500	+	Ð	0.1250	0.8990	0.8990	1.0400	1.0400	Ð	0.0500
5.9 ND	0.0500	+	2	0.1250	0.3660	0.3660	QN.	0.0500	QN	0.0500
0.000 ON + 1.00 0.000	0.000	+	Q,	0.1250	0.8700	0.8700	0.6390	0.6390	0.6030	0:6030
	0.0500	+	5	01250	02220	*	*	* 0	*	*
S.0 ND	0.0500	-	2	0.1250	0.9460	0.2270	0.2320	0.2520	1.4000	1.4000
3.8 ND	0.0500	1	ND	0.1250	2.0700	2.0700	0.7500	0.7500	0.2310	0.2510
8.7	0.1000	_	ND ON	0.2500	0.9700	0.9700	0.9820	0.9820	G Q	0.0500
Q.	0.0500	-	ND	0.1250	1.6800	1.6800	1.4900	1.4900	0.5790	0.5790
5.1 ND	0.0500	+	Q	0.1250	0.2400	0.2400	0.1520	0.1520	Q.	0.0500
0.0500 ND 0.0500	0.0500	+	ND 03320	0.1250	0.7060	0.7060	3.4300	3.4300	1.9200	1.9200
*	*	+	**	**	0.1010	0.1010	Q ,	0.0500	Q.	0.0500
8.8	0.0500	+	Ð	0.1250	Q.	0.0500	5	0.050.0	* 2	*
8.2 ND	0.0500	-	ND	0.1250	0.1620	0.1620	Ð	0.0500	2	0.0500
10.1 ND	0.0500	1	S S	0.1250	0.4650	0.4650	QN	0.0500	ND	0.0500
8.1	00500	1	Q 3	0.1250	1.2600	1.2600	1.5700	1.5700	1.6000	1.6000
Q.	0.0500		. 5	0 1050	*	* 80	* 5	*	*	*
7.6	0.9900		Ð	0.1250	ND	0.0500	4.6100	4.6100	0.0050	0.6650
	0.0500		QN.	0.1250	0.1790	0.1790	£	0.0500	QN	00500
**	*		*	*	*	*	*	*	*	*
5.1 ND	0.0500	1	£	0.1250	1.0800	1.0800	4.8300	4.8300	0.5480	0.5480
0.0 ND	0.0500	+	QN !	0.1250	0.2110	0.2110	Ð	0.0500	QN	0.0500
ON 9.4	0.0500	+	Q !	0.1250	0.1480	0.1480	g	0.0500	QN	0.0500
7.8 T	0.0300	+	Q E	0.1250	0.7890	0.7890	3.5800	3.5800	0.3810	0.3810
UN 2.7	0.0500	+	ON E	0.1250	0.3950	0.3950	Q.	0.0500	QN	0.0500
,,,,	0.0500	+	QN E	0.1250	0.1390	0.1390	QQ	0.0500	£	0.0500
00 NT	0.0200	+	Q §	0.1250	0.1600	0.1600	S	0.0500	Q.	0.0500
2.6	0.000	+	ON	0.1250	0.1480	0.1480	ND	0.0500	ND	0.0500
UN I./	0.0500	1	2	0.1250	0.2900	0.2900	0.4610	0.4610	0.1430	0.1430
8.6 ON	0.0500	1	QN	0.1250	Ð	0.0500	ND	0.0500	ND	0.0500
UN E./	0.0500	1	2	0.1250	0.1130	0.1130	ND ND	0.0500	ND	0.0500
	0.0500		9	0.1250	0.1540	0.1540	1.0500	1.0500	1.2200	1.2200
5.1 2.5800	2.5800	T	2 2	0.1250	0.2520 ND	0.2520	0.1070	0.1070	ES S	0.0500
114 4.4 ND 0.0500	0.0500	+	5	0.1250	0.2320	0.0500	4.9200	4.9200	2.4400	2.4400
		1		2000	0	السرت.۷	0.4140	0.2140	0.49/20	0.4920

SAMPLE DATE	AVG.WIND	AVG.WIND		ETHYLENE	1,3 BUT	1,3 BUTADIENE	BEN	BENZENE	VINYL C	VINYL CHLORIDE	ETHYLENE	ETHYLENE DICHLORME
	(Degrees)	SPEED (mph)	Actual (ppb)	1/2 Reported LOD (ppb)	Actual (nph)	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD
4/13/2018	142	10.2	ND	0.0500	Q.	0.1250	(ndd)	(ppp)	(add)	(qdd)	(qdd)	(qdd)
4/15/2018	305	3.0	QN	0.0500	Ð	0.1250	0.3520	0.3520	0 1640	0.0500	2 9	0.0500
4/17/2018	144	9.7	QN	0.5000	QN	0.1250	0.1650	0.1650	2	0.1040	2 2	0.0500
4/19/2018	48	3.3	QN	0.0500	ND	0.1250	0.6060	0909:0	0.4210	0.4210	0 1940	0.0300
4/21/2018	108	6.4	£	0.0500	ND	0.1250	0.1840	0.1840	QN.	0.0500	R	0.0500
472372018	243	1.2	Q	0.0500	g	0.1250	0.2550	0.2550	2.1000	2.1000	0.3550	0.3550
4/27/2018	124	3.5	2	0.0500	QN.	0.1250	0.3300	0.3300	0.1980	0.1980	0.1260	0.1260
4/2/1/2010	330	2.7	ON.	0.0500	QN ON	0.1250	0.5380	0.5380	2.2300	2.2300	0.2050	0.2050
5/1/2018	100	5.5	* [*	*	*	*	*	*	*	*	*
5/1/2010	SIL	9.8	Q (0.0500	Q.	0.1250	0.1050	0.1050	ND	0.0500	QN	0.0500
5/5/2010	320	3.5	QN 5	0.0500	Q	0.1250	0.1230	0.1230	ND	0.0500	ND	0.0500
5/7/2018	320	5.5	QN 4	0.0500	Q.	0.1250	0.2280	0.2280	ND ND	0.0500	ND	0.0500
5,07019	201	7.7	QV I	0.000	QN	0.1250	0.1160	0.1160	ND	0.0500	ND	0.0500
5/11/2018	120	0.0	2	0.0500	2 5	0.1250	Q.	0.0500	ND	0.0500	QN	0.0500
5/13/2018	115	3.1	QN ,	0.0500	QN	0.1250	æ	0.0500	ND	0.0500	ND	0.0500
5/15/2010	11.5	6.7	٠	*	*	*	*	*	*	*	*	*
5/12/2018	150	3.0	QN 4	0.0500	QN .	0.1250	£	0.0500	ND	0.0500	QN	0.0500
5/19/2018	121	101	QN 9	0.0500	Q.	0.1250	0.1320	0.1320	Q.	0.0500	QN QN	0.0500
5/21/2018	117	10.1	2	0.0500	QN !	0.1250	£	0.0500	QN.	0.0500	ND	0.0500
5/23/2018) X	5.5	dNi *	00000	QN .	0.1250	0.1520	0.1520	0.3580	0.3580	0.8050	0.8050
\$102/2018	8 01	3.0	, 9	*	* !	*	*	*	*	*	*	*
\$1021215	146	0.0	QN ,	00000	ON.	0.1250	0.1160	0.1160	QZ.	0.0500	S	0.0500
\$100000	140	5.5	. 9	*	* 4	*	*	*	*	*	*	*
5/31/2018	1.08	2.5	2 2	0.0500	Q (0.1250	Q.	0.0500	æ	0.0500	0.1290	0.1290
6/2/2018	148	6.9	2 2	0.0300	2 2	0.1250	QN C	0.0500	QN	0.0500	Q.	0.0500
6/4/2018	169	44	2 5	0.000	2 2	0.1230	0.1020	0.1020	Q.	0.0500	0.1390	0.1390
6/6/2018	137	6.7	Q. Q	0.000	2	0.1.0	0.1170	0.1170	0.1750	0.1750	0.1230	0.1230
6/8/2018	121	7.2	2	00500	2 2	0.1250	Q 4	0.0500	2 !	0.0500	ND	0.0500
6/10/2018	140	88	2 5	0.0500	2 2	0.1250	O 1030	0.0200	Q !	0.0500	QN	0.0500
6/12/2018	126	8.8	2	00500	2 5	0.1250	0.1130	0.1930	2 !	0.0500	Ð	0.0500
6/14/2018	122	6.9	9	0.0500	2 2	0.120	0.1120	0.1120	Q !	0.0500	Ð	0.0500
6/16/2018	114	8.9	*	*	*	**	*	0.1490	QX *	0.0500	Q ,	0.0500
6/18/2018	66	4.8	Ð	0.0500	Q	0.1250	0.1120	0.1120	0.6960	05050	4 0400	*
6/20/2018	105	5.3	ND	0.0500	N Q	0.1250	0.1230	0.1230	0.3960	0.3960	0.6200	1.8400
6/22/2018	151	4.9	ND	0.0500	QV.	0.1250	0.1560	0.1560	Ð	0.0500	0.1030	0.0200
6/24/2018	131	8.8	Q	0.0500	QN.	0.1250	Ø	0.0500	Q.	0.0500	Ð	0.0500
6/26/2018	123	7.5	Q.	0.0500	2	0.1250	ΩN	0.0500	ND	0.0500	ND	0.0500
6/28/2018	193	0.7	2	0.0500	QN	0.1250	Q.	0.0500	QN	0.0500	ND	0.0500
7777018	137	6.3	ON G	0.0500	2	0.1250	Q.	0.0500	Ð	0.0500	Ð	0.0500
7/4/2018	130	2.8	2 5	0.0000	2 2	0.1250	2	0.0500	Q.	0.0500	Ð	0.0500
7/6/2018	208	2.0	5	00000	2 5	0.65.1	ND	0.5000	QN S	0.5000	10.3000	10.3000
7/8/2018	161	2.8	2	0.0500	2	0.1230	0.5160	0.5180	0.1040	0.1040	0.3430	0.3430
7/10/2018	121	4.6	£	0.0500	1 5	0.1250	0.1930	0.1930	2 4	0.0500	2	0.0500
7/12/2018	146	4.3	S	00200	9	0.1250	0.300	0.3030	ON E	0.0200	Q	0.0500
7/14/2018	138	6.1	2	0.0500	2 2	0.1230	2 2	0.0200	2	0.0500	2	0.0500
7/16/2018	153	5.9	QN	0.0500	£	0.1250	0.1080	0.0300	2 2	0.0500	2 2	0.0500
7/18/2018	164	5.6	Ð	0.5000	QN	0.1250	0.1850	0.1850	2 2	0.0500	2 2	0.0500
7/20/2018	163	5.9	QN.	0.0500	ND QN	0.1250	0.4950	0.4950	QN QN	0.0500	0.1720	0.1720
7/22/2018	176	5.7	QN	0.0500	N Q	0.1250	0.4890	0.4890	ND	0.0500	0.1090	0.1090

Actional (1978) Actional (SAMPLE DATE	AVG.WIND	AVG.WIND		ETHYLENE	1,3 BU	1,3 BUTADIENE		BENZENE	VINYLC	VINYL CHLORIDE	ETHYLENE	ETHYLENE DICHLORIDE
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		(Degrees)	SPEED (mph)	Actual (ppb)	1/2 Reported LOD (ppb)	Actual (ppb)	1/2 Reported LOD (ppb)	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	7/24/2018	145	3.7	ND	0.0500	QN	0.1250	0.1390	0.1390	(phd)	(odd)	(qdd)	(qdd)
1,15, 1,15	7/26/2018	143	3.1	ND	0.0500	S	01250	0.2550	0.0350	ON ON	0.0500	QN	0.0500
1,14 1,15	7/28/2018	133	4.0	- Q	0.0500	QN	0.1250	0.1870	0.2330	UN CIN	0.0500	0.1000	0.1000
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	7/30/2018	156	3.9	QN.	0.0500	S	01050	ND	0.0000	GN GN	0.0500	0.1050	0.1050
11 11 12 13 13 13 13 13	8/1/2018	129	1.1	QN	0.0500	QN	0.1250	0.3900	0.3900	1 2300	0.0200	ON	0.0500
150 6.15 6	8/3/2018	107	4.1	QN	0.0500	ND	0.1250	0.3420	0.3420	0.2380	0.7380	0.000	0.3380
1.1. 1.1.	8/5/2018	101	6.5	ND	0.0500	ND	0.1250	ND	0.0500	ND	0.0500	NOON	0.0500
184 14, 1, 1, 1,	8/7/2018	122	6.2	ND	0.0500	ND	0.1250	ND	0.0500	S	0.0500	ND	0.0500
149 44 1	8/9/2018	138	5.6	ON	0.0500	ND	0.1250	ND	0.0500	QN	00000	01170	00000
143 143	8/11/2018	149	4.1	×	*	*	*	le	He	*	*	0.1170 ×	0.1170
154 6.0	8/13/2018	134	7.7	ND	0.0500	ND	0.1250	N.	0.0500	ND	0.0500	SN	00800
158 150 150 150 101800 10180 101	8/15/2018	142	6.5	ON	0.0500	ND	0.1250	ND	0.0500	QV	00000	2	0.0500
158 254 10 10 10 10 10 10 10 1	8/17/2018	135	0.9	ND	0.0500	ND	0.1250	ND	0.0500	QN	00200	ON ON	0.0500
155 254 N.D. 0.0290 N.D. 0.1290 0.1290 N.D. 0.1290 N.D. 0.1290	8/19/2018	158	7.4	*	*	*	*	*	*	*	*	*	0.000
15 15 15 15 15 15 15 15	8/21/2018	155	5.4	ND	0.0500	ND	0.1250	ND	0.0500	QN	0.0500	CZ	0.0500
15 15 15 15 15 15 15 15	8/23/2018	136	3.9	H	×	si-	и	*	*	*	*	*	4.0500
13 14 15 15 15 15 15 15 15	8/25/2018	125	5.9	ND	0.0500	ON	0.1250	ND	0.0500	ND	0.0500	CZ	0.0500
106 41 10 1050 N.D. 01290 N.D. 01890 N.D. 0189	8/27/2018	124	6.9	ND	0.0500	CN	0.1250	dN	0.0500	CN.	0.0500	GW.	0.0000
100 410 85 8 8 8 8 9 700 100 <	8/29/2018	121	4.3	ND	0.0500	ND	0.1250	ND	0.0500	GN GN	0.0500	00110	0.0500
106 41 NB 0.0000 NB 0.1290 NB 0.1090 0.	8/31/2018	901	4.0	**	*	*	*	*	*	*	*	*	D.112U
91 146 ND 0.0000 ND 0.1250 0.1090 1.6000 1.6000 1.5400 1.5400 120 4.8 ND 0.0000 ND 0.1250 0.1690	9/2/2018	106	2.1	ND	0.0500	ND	0.1250	ND	0.0500	0.1700	0.1700	0.3080	0.308.0
130 418 NND 0.04500 NND 0.12590 0.16890 0.16890 0.06890 0.06900 0.06900 0.06900 0.06900 0.06900 0.06900 0.06900 0.06900 0.06900 0.06900 0.06900 0.01290 0.11890 0.01890	9/4/2018	69	4.6	QN	0.0500	ND	0.1250	0.1090	0.1090	1.6600	1.6600	1.9400	1.9400
13 3.4 ND 0.0590 ND 0.1290 0.1760 0.1770 0.1070 0.1070 0.1159 0.1159 0.1159 0.1250 0.1250 0.1760 0.1760 0.1070 0.1159 0.1159 0.1159 0.1250	9/6/2018	16	8.1	ND	0.0500	ND	0.1250	0.1680	0.1680	0.6980	0.6980	0.6670	0.6670
41 42 ND 0.05000 ND 0.1290 0.1080 1,530 1,530 1,530 0.15800 3,5800 44 4,1 6,1 ND 0.05000 ND 0,1250 0,1550 0,1590 2,1890 3,5800 44 6,1 ND 0.0500 ND 0,1250 0,1550 0,1590 2,1890 3,5800 122 1,3 ND 0.0500 ND 0,1250 0,1590 0,1590 0,1800 0,1800 141 5,9 ND 0.0500 ND 0,1250 0,1590 0,1800 ND 0,1800 115 5,9 ND 0.0500 ND 0,1250 0,1800 ND	9/8/2018	130	8.7	QN	0.0500	ND	0.1250	0.1760	0.1760	0.1070	0.1070	0.1150	0.1150
41 6, 40 ND 0.05500 ND 0.1250 0.1560 0.1600 2.1800 2.1800 2.1800 3.1800 172 1,9 ND 0.05500 ND 0.1250 0.1250 0.1560 0.1450	9/10/2018	40	3.7	Q S	0.0500	QN	0.1250	0.1080	0.1080	1.5300	1.5300	3.5800	3.5800
121 151 NAD 0.0350 NAD 0.1250 0.1550 0.1550 0.1250 0.1550	9/14/2018	200	4.0	ON ON	0.0500	QN	0.1250	0.1600	0.1600	2.0500	2.0500	3.3800	3,3800
121 123 124 124 125	0/16/2018	14	0.1	QN C	0.0500	QN	0.1250	0.1550	0.1550	2,1800	2.1800	5.1700	5.1700
134 135 ND 010500 ND 01250 ND 01320 ND	0102010	277	6.1	ON ON	0.0500	ND	0.1250	0.2860	0.2860	0.5470	0.5470	0.8670	0.8670
15	9/18/2018	181	1.3	ON IN	0.0500	QN	0.1250	0.1320	0.1320	ND	0.0500	0.1420	0.1420
132 4.5 ND 0,0000 ND 0,1350 0,1510 ND 0,0500 ND 0,1250 0,1510 ND 0,0500 ND 0,1250 0,1510 ND 0,0500 ND 0,1250 0,1510 0,1510 ND 0,0500 ND 0,0500 ND 0,0500 ND 0,1250 0,1510 0,1510 0,4270 0,4270 0,4270 0,8000 ND 0,8000 ND 0,0500 ND 0,1250 0	97272016	171	9.0	ON an	0.0500	QN	0.1250	ND	0.0500	ND	0.0500	ND	0.0500
112 4.5 ND 0.01350 0.1780 ND 0.01250 0.1780 ND 0.0500 ND 0.01250 0.1780 0.1780 ND 0.0250 ND 0.01250 0.1780 0.01270 0.0200 1.6100 1.6100 1.9400 1.9400 6.5 2.9 ND 0.05500 ND 0.1250 0.2190 0.2190 1.6100 1.9400 1.9400 6.5 2.2 ND 0.05500 ND 0.1250 0.2190 0.2190 1.2900	01077776	304	5.5	ON ON	0.0500	CN	0.1250	0.1510	0.1510	ND	0.0500	ND	0.0500
62 2.4 ND 0.0000 ND 0.1250 ND 0.0450 0.1250 0.1510 0.1510 0.0420 0.0400 65 2.2 ND 0.0500 ND 0.1250 ND 0.0500 1.000 <	810079076	133	2.4	ND NA	0.0500	2	0.1250	0.1780	0.1780	QN	0.0500	ND	0.0500
65 2.7 ND 0.0500 ND 0.1350 ND 0.0500 1.6100 1.	8100800	50	toc	ON ON	0.0500	ON.	0.1250	0.1510	0.1510	0.4270	0.4270	0.8060	0.8060
92 4.7 N.D 0.0500 ND 0.1250 0.2190 1.2900 1.2900 2.1300 ND 0.1250 ND 0.05500 ND 0.1250 ND 0.05500 ND 0.1250 0.04500 ND 0.1250 0.04500 ND 0.1250 0.05500 ND 0.05500 0.05500 ND 0.05500 0.05500 ND 0.05500	9/30/2018	50	200	S. S.	0,0500	ON ON	0.1250	ON ON	0.0500	1.6100	1.6100	1.9400	1.9400
111 4.8 ND 0.5050 ND 1.250 1.250 1.250 1.250 1.250 1.250 1.250 1.250 1.250 1.250 1.250 ND 0.0500 ND 0.2500 ND 0.2500 ND 0.2500 ND 0.2500 ND 0.2500 ND 0.2500 ND 0.0500	10/2/2018	92	4.7	ON ON	0.0500	ON ON	0.1250	0.2190	0.2190	2.1300	2.1300	2.8200	2.8200
112 6.2 ND 0.05000 ND 0.1250 ND 0.0500 ND 108 7.8 ND 0.0500 ND 0.1250 ND 0.0500 ND 344 3.8 ND 0.0500 ND 0.1250 ND 0.0500 ND 88 5.1 ND 0.0500 ND 0.1250 0.7510 0.9960 0.9960 0.9980 123 7.0 ND 0.0500 ND 0.1250 0.2160 ND 0.0500 ND 317 6.3 ND 0.0500 ND 0.1250 0.2180 ND 0.0500 ND 343 4.9 ND 0.0500 ND 0.1250 0.2080 ND 0.0500 ND 345 6.8 ND 0.0500 ND 0.1250 0.2600 1.0100 1.0100 1.0100 351 4.8 ND 0.0500 ND 0.1250 0.2600 0.2600 1.230	10/4/2018	111	8.4	2	0.5000	ON ON	0.120	ON	0.0200	1.2900	1.2900	2,1200	2,1200
108 7.8 ND 0.0500 0.0500 ND 0.0500 0.0500 ND 0.0500 0.0500 ND <	10/6/2018	112	6.2	8	0.0500	2	01000	LUNAU.	0.0500	QN.	0.5000	Q.	0.0500
344 3.8 ND 0.05000 ND 0.1250 0.7510 0.0500 ND 88 5.1 ND 0.0500 ND 0.1250 0.4150 0.7510 0.9960	10/8/2018	108	7.8	GN.	00000	2 2	0.1350	ON CANA	0.0300	ON A	0.0500	QN	0.0500
88 5.1 ND 0.0500 ND 0.1250 0.4150 5.0500 5.0500 17.7000 123 7.0 ND 0.0500 ND 0.1250 0.2210 ND 0.0500 ND 343 4.9 ND 0.0500 ND 0.1250 0.0560 ND 0.0500 ND 345 6.8 ND 0.0500 ND 0.1250 0.3660 1.0100 1.0100 ND 351 4.8 ND 0.0500 ND 0.1250 0.3650 1.0100 1.0100 ND 5 3.9 * * * * * * * * * 249 1.5 ND 0.0500 ND 0.1250 0.2520 0.2520 0.6970 ND 0.1290 179 2.8 ND 0.0500 ND 0.1260 0.2500 ND 0.0500 ND 0.0500 ND 0.0500 ND 0.0500 <	10/10/2018	344	3.8	N ON	0.0500	2	0.1250	0.7510	0.7510	UNI 0	0.0500	O OOOO	0.0500
133 7,0 ND 0,0500 ND 0,1250 0,2210 ND 0,0500 ND 0,1250 0,2210 ND 0,0500 ND ND 0,1250 0,2210 0,0200 ND ND ND ND ND 0,1250 0,0560 0,0560 ND 0,0500 ND ND ND 0,1250 0,0560 0,0560 1,0100 1,0100 ND ND ND ND 0,1250 0,2560 0,0560 1,0100 ND ND ND ND 0,1250 0,3600 1,0100 ND ND ND ND 0,1250 0,2560 0,3600 ND 0,1250 0,2560 0,2560 1,2300 ND ND 0,1250 0,2520 0,2520 0,2550 ND 0,1250 ND ND 0,1250 0,2520 0,2560 ND 0,0500 ND ND 0,1250 0,2500 ND 0,0500 ND 0,0500 ND 0,0500 ND 0,0500 ND	10/12/2018	88	5.1	QN	0.0500	ND	0.1250	0,4150	0.4150	5.0600	5.0600	17 2000	0.9980
317 6.3 ND 0.0500 ND 0.1250 0.2080 ND 0.0500 ND ND 34.3 4.9 ND 0.5000 ND 0.1250 0.6560 0.6560 1.0100 1.0100 ND 34.5 6.8 ND 0.6500 ND 0.1250 0.3660 1.2300 1.0100 ND 351 4.8 ND 0.6500 ND 0.1250 0.3650 4.7800 4.7800 0.1290 ND 249 1.5 ND 0.6500 ND 0.1250 0.2520 0.2520 0.6970 ND ND 179 2.8 ND 0.6500 ND 0.1260 ND 0.2560 ND 0.6970 ND 324 6.5 ND 0.0500 ND 0.1260 ND 0.5600 ND 0.6970 ND 324 6.2 ND 0.0500 ND 0.1260 0.5600 ND 0.6970 0.560	10/14/2018	123	7.0	QN.	0.0500	ND	0.1250	0.2210	0.2210	QN.	0.0500	ON	0.0500
343 4.9 ND 0.5000 ND 0.1250 0.6560 0.6560 1.0100 1.0100 ND 345 6.8 ND 0.0500 ND 0.1250 0.3660 0.3660 1.2300 1.0100 ND 351 4.8 ND 0.6500 ND 0.1250 0.3650 4.7800 4.7800 0.1290 ND 249 1.5 ND 0.0560 ND 0.1250 0.2520 0.2550 0.6970 ND ND 137 5.8 ND 0.0560 ND 0.1250 0.2960 ND 0.0590 ND ND 324 6.5 ND 0.0560 ND 0.1260 ND 0.0500 ND 0.0500 ND	10/16/2018	317	6.3	QN	0.0500	ND	0.1250	0.2080	0,2080	QN.	0.0500	QN	0.0500
345 6.8 ND 0.0500 ND 0.1250 0.3660 0.3660 1.2300 1.2300 ND 351 4.8 ND 0.6500 ND 0.1250 0.3650 4.7800 4.7800 0.1290 5 3.9 * * * * * * * 249 1.5 ND 0.0560 ND 0.1250 0.2520 0.2550 0.6970 ND ND 137 5.8 ND 0.0560 ND 0.1250 0.2960 ND 0.0590 ND ND ND 0.1260 ND ND 0.0500 ND ND 0.1260 ND 0.0560 ND ND ND 0.0500 ND ND 0.0560 ND 0.0500 ND <t< td=""><td>10/18/2018</td><td>343</td><td>4.9</td><td>ND</td><td>0.5000</td><td>QN</td><td>0.1250</td><td>0.6560</td><td>0.6560</td><td>1.0100</td><td>1.0100</td><td>ND</td><td>0.0500</td></t<>	10/18/2018	343	4.9	ND	0.5000	QN	0.1250	0.6560	0.6560	1.0100	1.0100	ND	0.0500
351 4.8 ND 0.6500 ND 0.1250 0.3050 4.7800 4.7800 0.1250 249 1.5 ND 0.0500 ND 0.1250 0.2520 0.2550 0.6970 ND ND 137 5.8 ND 0.0500 ND 0.1250 0.2960 ND 0.0500 ND 137 6.6 ND 0.0500 ND 0.1250 ND 0.0500 ND 324 6.2 ND 0.0500 ND 0.1250 ND 0.0500 ND 324 6.2 ND 0.0500 ND 0.1250 0.560 ND 0.0500 ND	10/20/2018	345	8.9	Q	0.0500	QN	0,1250	0.3600	0,3600	1.2300	1.2300	QN	0.0500
2 3.5 *	10/22/2018	351	4.8	QN.	0.0500	ND	0.1250	0.3050	0.3050	4.7800	4.7800	0.1290	0.1290
2.47 1.3 ND 0.0300 ND 0.1250 0.2520 0.2530 0.6970 ND ND 179 2.8 ND 0.0500 ND 0.1250 0.2960 ND 0.0500 ND 137 6.6 ND 0.0500 ND 0.1250 ND 0.0500 ND 324 6.2 ND 0.0500 ND 0.1260 0.260 ND ND	10/24/2018	340	3.9	34 2	*	*	M	*	*	*	*	*	+
17	810/28/2018	170	3.6	ON G	0.0500	QN 4	0.1250	0.2520	0.2520	0.6970	0.6970	ON	0.0500
324 6.2 ND 0.0500 ND 0.1740 0.0500 ND 0.0500 N	10/30/2018	137	6.6	2 2	0.0500	GN CN	0.1250	0.2960	0.2960	QN	0.0500	QN	0.0500
	11/1/2018	324	69	2 6	0.0500	GN GN	0.1.20	ON	0.0500	QN	0.0500	ND	0.0500

SYREED (mph) Actual (pph)	SAMPLE DATE	AVG.WIND	AVG.WIND	ETH	ETHYLENE	1,3 BU	1,3 BUTADIENE	BE	BENZENE	VINYLC	VINYL CHLORIDE	STHVI ENE	ETHYLENE DICHLORMS
154 150		DIRECTION	SPEED (mph)	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD
1, 19, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	01000011	(franchise)		(ndd)	(add)	(odd)	(qdd)	(qdd)	(pdd)	(qdd)	(qdd)	(pdd)	(qdd)
1,550 1,51,5	8107/5/11	1.50	6.7	0.3310	0.3310	Q.	0.1250	0.1010	0,1010	QN	0.0500	QN	0.0500
348 14.5 6.15 mod 0.75 mod 0.75 mod 0.12 mod 0.14 mod 0.04 mod 0.0	11/5/2018	158	4.9	0.3430	0.3430	QN	0.1250	0.1660	0.1660	0.4450	0.4450	0.7320	0.7370
348 1112 ND 010500 0.2900 0.7900 0.7900 0.1900	11/7/2018	157	4.8	0.3760	0.3760	ON	0.1250	0.1450	0.1450	QN	0.0500	CN.	0.050.0
3.31 56.2 NND 0.00800 NND 0.12900 0.53500 0.64500 0.64500 0.64500 0.64500 0.65500 0.51800 <td>11/9/2018</td> <td>348</td> <td>10.2</td> <td>ND ND</td> <td>0.0500</td> <td>0.2930</td> <td>0.2930</td> <td>0.7920</td> <td>0.7920</td> <td>1,3200</td> <td>1 3200</td> <td>0.3510</td> <td>0.3510</td>	11/9/2018	348	10.2	ND ND	0.0500	0.2930	0.2930	0.7920	0.7920	1,3200	1 3200	0.3510	0.3510
112 7.6 NND 0.0000 NND 0.1290 0.0580	11/11/2018	24	6.2	ND	0.0500	ND	0.1250	0.4330	0.4330	0.8340	0.8340	03180	0.0010
11 2	11/13/2018	321	7.6	QN	0.0500	ND	0.1250	0.2450	0.2450	0.1040	0 1040	DOLC O	0.5160
88 45 8 45 8 45 8 45 6,000 0,000 0,1200 0,1200 0,04500 0,04500 1,340 1,000 1,000 446 0.48 ND 0,000 ND 0,1200 0,04500 1,340 1,000 1,000 85 1.9 ND 0,000 ND 0,1200 0,200 0,0450 ND 0,0450 ND 185 1.9 ND 0,000 ND 0,1200 0,200 ND 0,0450 ND 0,0450 ND 185 1.9 ND 0,000 ND 0,1200 0,2100 0,2100 0,1900 ND 0,0450 ND 0,1400 0,1900 ND 0,1900 0,1900 0,1900 0,1900 0,1900	11/15/2018	112	2.9	QN	0.0500	ND	0.1250	0.3090	03000	0.7050	0.7050	OCIOO	0.0500
344 20 x <td>11/17/2018</td> <td>988</td> <td>4.5</td> <td>×</td> <td>*</td> <td>*</td> <td>*</td> <td>W. W.</td> <td>*</td> <td>OCO.</td> <td>nen-n</td> <td>0.8120</td> <td>0.8120</td>	11/17/2018	988	4.5	×	*	*	*	W. W.	*	OCO.	nen-n	0.8120	0.8120
46 64 ND 6,0500 ND 0,1290 0,4500 1,3400 1,3400 1,000 316 0.04 0.04 0.04 0.04 0.04 0.0450 ND 0.0450 0.0450 ND 0.0450 ND 0.0450 0.0450 0.0450 0.0450	11/19/2018	344	7.0	*	*	*	*	*	: Э	. 9		N :	4
46 64 8 8 1,100 0,000 1,100	11/21/2018	22	4.8	2	0.0500	ON	03610	0.4500	0.4600	1 3400	*	*	34
316 320 ND 0.0500 ND 0.1290 0.2100 ND 0.0500 ND 85 1.9 ND 0.0500 ND 0.1290 0.2100 ND 0.0500 ND 244 3.2 ND 0.0500 0.2780 0.1770 0.1700 ND 0.0500 ND 0.0500 ND 0.0550 0.0500 ND 0.0500	11/23/2018	46	0.4	*	*	*	W.120	W.+300	0.4500	1.5400	1.3400	1.0700	1.0700
§§§ 1.9 ND 0.05500 ND 0.1200 0.1200 ND 0.05500 ND 246 5.2 ND 0.05500 ND 0.12500 0.1370 0.1170 ND 0.05500 0.1370 248 5.2 ND 0.05500 0.02780 0.1250 0.1950 ND 0.05500 0.1400 ND 0.05500 0.1400 ND 0.05500 0.0150 0.1500 0.01500	11/25/2018	316	3.0	QN.	0.0500	CN.	0100	03050	0.000	•		2	III.
143 3.2 ND 0.0500 0.1290 0.1290 0.1290 0.1700 ND 0.0500 ND 240 5.2 ND 0.0580 0.1280 0.1290 0.1770 ND 0.0580 0.1780 0.1770 ND 0.0580 0.1780 0.1790 0.0590 0.1490 0.1790 0.0590 0.1490 0.1790 0.0590 0.1400 0.0590 <td< td=""><td>11/27/2018</td><td>5%</td><td>10</td><td>ON ON</td><td>00500</td><td>ON CONTRACT</td><td>0.120</td><td>0.2050</td><td>0.2050</td><td>QN</td><td>0.0500</td><td>QN.</td><td>0.0500</td></td<>	11/27/2018	5%	10	ON ON	00500	ON CONTRACT	0.120	0.2050	0.2050	QN	0.0500	QN.	0.0500
240 2.7 ND 0.0500 0.1780 0.1790 0.1790 ND 0.0500 0.3700 446 5.8 ND 0.0560 0.2780 0.1780 0.1940 ND 0.0500 0.2780 0.1940 ND 0.0500 0.1849 0.0590 0.0590 0.2780 0.0590	810/26/11	145	3.3	2 2	0.0500	ON ON	0.120	0.2100	0.2100	QN	0.0500	QN	0.0500
446 5.8 ND 0.0500 0.71590 0.61990 0.61990 ND 0.0500 0.71890 0.61990 O.61990 O.62990 0.62900	9100/1/01	240	1 1	9	0.000	0.2780	0.2780	0.1770	0.1770	ON	0.050.0	0.3070	0.3070
456 5.54 NAD 0.05500 0.12860 0.5840 0.6840 0.6840 0.6230 0.61200 0.6230 0.6230 0.61200 0.6230 0.61200	0102/12/1	240	7,7	dN.	0.0500	QN	0.1250	0.1930	0.1930	QN	0.0500	0.1400	0.1400
102 1.8800 1.88	0107/07/1	348	3.8	GN	0.0500	0.2780	0.2780	0.8490	0.8490	0.6290	0.6290	0.6660	09990
101 1.9 ND 0.0500 ND 0.1250 0.2340 0.1340	102/2018	40	5.0	ND	0.0500	QQ.	0.1250	0.3790	0.3790	1.8800	1.8800	5.1400	5.1400
3133 6.4 " </td <td>12772018</td> <td>102</td> <td>1.9</td> <td>QN</td> <td>0.0500</td> <td>QN</td> <td>0.1250</td> <td>0.3240</td> <td>0.3240</td> <td>0.1260</td> <td>0.1260</td> <td>0.2680</td> <td>0.2680</td>	12772018	102	1.9	QN	0.0500	QN	0.1250	0.3240	0.3240	0.1260	0.1260	0.2680	0.2680
101 3.0 ND 0.0500 ND 0.1250 0.1260 0.1050 ND 0.1050 ND 0.1250 ND 0.1550 ND 0.0500 ND ND 0.1250 ND 0.1550 ND 0.0500 ND ND 0.1250 ND 0.0500 ND 0.1250 ND 0.0500 ND 0.1250 ND 0.0210 0.2340 ND 0.0500 ND 0.1250 0.2340 ND 0.0500 ND 0.0250 0.2340 ND 0.0250 0.2340 0.2240 0.2240 0.2240 0.025	12/9/2018	323	6.4	*	*	*	*	*	*	*	*	*	*
245 6.7 ND 0.0500 ND 0.1250 0.1550 ND 0.0500 ND 129 5.4 8.4 9.4 9.4 9.4 9	12/11/2018	101	3.0	ND ON	0.0500	QN	0.1250	0.2460	0.2460	0.1050	0.1050	0.3330	0.3330
294 5.4 * <td>12/13/2018</td> <td>235</td> <td>6.7</td> <td>QN</td> <td>0.0500</td> <td>ND</td> <td>0.1250</td> <td>0.1550</td> <td>0.1550</td> <td>ND</td> <td>0.0500</td> <td>S</td> <td>0.0500</td>	12/13/2018	235	6.7	QN	0.0500	ND	0.1250	0.1550	0.1550	ND	0.0500	S	0.0500
1.25 1.7 ND 0.0500 ND 0.1250 0.2460 0.5460 0.5460 0.5950 0.5950 0.216	12/15/2018	284	5.4	*	*	*	*	*	*	34	*	*	*
15 1.7 ND 0.05600 ND 0.1290 0.2210 0.2210 0.5950 0.5950 3.3900 240 3.0 ND 0.05500 ND 0.05500 ND 0.05500 0.0590 0.0590 0.0590 0.0590 0.0590 0.0590 0.0590 0.0500 ND 0.0590	12/17/2018	129	1.7	QN	0.0500	ND	0.1250	0.5460	0.5460	ND	0.0500	0.2160	03160
240 3.0 ND 0.0500 ND 0.1250 0.2790 0.2790 0.2790 0.2790 0.2790 0.2790 0.2790 0.2790 0.2790 0.7380 0.2790 0.0200 <	12/19/2018	15	1.7	QN	0.0500	ON ON	0.1250	0.2210	0.2210	0.5950	0.5950	3.3900	3 3000
323 3.2 ND 0.0300 0.2910 0.7380 0.7380 0.4220 0.4220 ND 106 5.9 ND 0.0200 ND 0.1250 0.2070 0.0300 0.1530	12/21/2018	240	3.0	QN	0.0500	QN	0.1250	0.2790	0.2790	QN	0.0500	0.2230	0.2230
106 5.9 ND 0.1530	12/23/2018	323	3.2	QN	0.0500	0.2910	0.2910	0.7380	0.7380	0.4220	0.4220	QN	0.0500
128 1.7 ND 0.0500 ND 0.1250 0.2390 0.2390 0.3100 0.3100 1.5000 ND 1.5000 ND 2.54 3.2 0.7080 0.7080 ND 0.1250 0.2320 0.2320 0.3200 0.3400 ND ND ND ND ND ND ND	12/25/2018	901	5.9	QN	0.0500	QN	0.1250	0.2070	0.2070	0.1530	0.1530	0.8980	08680
346 8 6 ND 0.0500 ND 0.1250 0.2920 0.2920 0.3900 0.3400 ND ND 254 3.2 0.7080 0.7080 ND 0.1250 0.3200 0.3200 ND 0.0500 ND Actual (ppb) 1.2 Reported LOD Actual (ppb) 1.2 Reported LOD Actual (ppb) 1.2 Reported LOD Actual (ppb)	12/27/2018	128	1.7	ND	0.050.0	ND	0.1250	0.2390	0.2390	0.3100	0.3100	1.5000	1,5000
State 3.2 0.7080 ND 0.1250 0.3200 0.3200 ND 0.0500 ND ND 0.0500 ND	8102/62/21	346	9.8	QN	0.050.0	ND	0.1250	0.2920	0.2920	0.3400	0.3400	QN.	0.0500
ETHYLENE 1,3 BUTADIENE BENZENE VINYL CHLORIDE ETHYLENE DI (PDB) FTHYLENE DI (PDB) ETHYLENE DI (PDB) FTHYLENE DI (PDB) ETHYLENE DI (PDB) Actual (PDB) (PDB) (PDB) Actual (PDB) ETHYLENE DI (PDB) Actual (PDB)<	12/31/2018	254	3.2	0.7080	0.7080	QN	0.1250	0.3200	0.3200	ND	0.0500	ND	0.0500
ETHYLENE I.3 BUTADIENE BENZENE VINYL CHLORIDE ETHYLENE Actual 1/2 Reported LOD Actual 1/2 Reported LOD Actual 1/2 Reported LOD Actual (ppb)			L										
Actual 1/2 Reported LOD Actual 1/2 Reported LOD Actual 1/2 Reported LOD Actual 1/2 Reported LOD Actual Actual 1/2 Reported LOD Actual Actua				ETH		1,3 BU	CADIENE	- 1	ZENE	VINYL C	HLORIDE	ETHYLENE	DICHLORIDE
Upport Upport (ppb) <				Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD
21,2780 31,7780 1,4720 24,8470 47,4090 49,8590 91,2340 96,5340 107,0660 0.1305 0.1950 0.0090 0.1524 0.2909 0.3059 0.5928 0.6568		4 9		(add)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(pbp)	(pbp)
0.1305 0.1950 0.0090 0.1524 0.2909 0.3059 0.5597 0.5928 0.6568 0.1574 0.3000 0.3059 0.5597 0.5928 0.6568		Year-10-Date Sum		21.2780	31.7780	1.4720	24.8470	47,4090)	49.8590	91.2340	96.6340	107.0660	111.3660
0.1305 0.1950 0.0000 0.1524 0.3000 0.3050 0.2000		Rolling Year Average		0.1305	0.1950	0.0000	0.1524	0.2909	0.3059	0.5597	0.5928	0.6568	0.6832
		Annual Average		0.1305	0.1950	06000	0.1524	0.2000	0.3050	0.5507	95030	3	4 440 0

	1112	PINITERIA	LOG C'I	L'S BULADIENE	BEN	BENZENE	VINYLO	VINYL CHLORIDE	ETMYL
	Actual (nph)	1/2 Reported LOD	Actual (nub)	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual
		(mdd)	(mdd)	(add)	(add)	(add)	(odd)	(pdd)	(qdd)
Year-To-Date Sum	21.2780	31.7780	1.4720	24.8470	47,4090	49.8590	91.2340	96,6340	107.0660
Rolling Year Average	0.1305	0.1950	0.0090	0.1524	0.2909	0.3059	0.5597	8665 0	0.6568
Annual Average	0.1305	0.1950	0.0090	0.1524	0.2909	03080	0.5597	8005.0	0.4560
						200000	0.000	07270	0.0300
Number of theoretical sample periods	183	183	183	183	183	183	183	183	183
Number of non operational sample periods	20	30	30	30	20	30	30	30	30

^{* -} non operational, data from the North site was used for Wind Direction and Wind Speed, if available

TCEQ Air Monitoring (itoring Comparison	Comparison Values (ppb)	Investigation
Chemical	ST	LT	Limit (ppb)
Vinyl Chloride	27,000	0.47	25
Ethylene Dichloride	94	0.72	29.7
Benzene	180	1.4	28.2
Ethylene	200,000	30	200
1, 3 Butadiene	1,700	6	25

163,0000

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FORMOSA VOC CANISTER ANALYSIS 4th QUARTER 2018 POINT COMFORT - PC SITE DUPLICATE SAMPLE SCHEDULE

SAMPLE DATE	AVC WIND	AVC WIND	L. J.	THUM END	13 010	13 print primit						
	DIRECTION	SPEED (mph)	Actual	1/2 Reported LOD	Actual	al 1/2 Reported I OD	Actual	DENZENE 1/2 Deserted I OF	VINT	VINYL CHLORIDE	ETHYLEN	ETHYLENE DICHLORIDE
	(Degrees)		(qdd)	(qdd)	(qdd)	(qdd)	(ppb)	1/2 reported LOD (ppb)	Actual (ppb)	1/2 Reported LOD (ppb)	Actual (ppb)	1/2 Reported LOD (ppb)
01/09/18	146	5.6	QN	0.0500	£	01250	1 1000	1000	0250	02300	0000	0.000
01/09/18 _d	146	5.6	QN	0.0500	Ð	0.1250	1.2000	1.2000	0.2780	0.2780	0.5910	0.3910
Relati	Relative Percent Difference (RPD)	(RPD)		QN		QN.	М	-8.6957	1 1	-7.8505		-47.2656
01715/10	00											
01/15/18	68	5.9	Q *	0.0500	Q *	0.1250	0.1030	0.1030	QN	0.0500	0.1370	0.1370
Policitio	Poloting Demont Difference (DDD)	ÆΚ		,	+	*	*	*	*	*	*	*
Weight	ve retream Dimerance	(MrD)				*		*		*		*
01/23/18	275	4.0	QN	0.0500	S S	0.1250	0.6400	0.6400	0.4360	0.4360	0.3610	03510
01/23/18 _e	275		Ð	0.5000	ND	0.1250	0.6770	0.6770	0.9880	0.9860	0.3680	0.3680
Relati	Relative Percent Difference (RPD)	(RPD)		ND		QQ.	ш	-5.6188		-77.5281	1	-1.9204
9172210	12:		2 4500	0007							ΙI	ш
01/27/18	121	4.4	3.5900	3.5900	ON CO	0.7500	1.5600	1.5600	1.6800	1.6800	6.9100	6.9100
Relati	Relative Percent Difference (RPD)		\vdash	41.1504		QN	11	66.2116		52.8217		41.8198
81700700	146	0.4	9	00500	1	0.000				1		
02/02/18	146		2 2	0.0500	QN QN	0.1250	0.8700	0.8700	0.6390 UN	0.6390	0.6030	0.6030
Relati	Relative Percent Difference (RPD)	(RPD)		Q.		ND		-33.4928		170.9724	1 1	169.3721
02/10/18	218	3.8	CZ.	00500	E	01250	00000	(VOLO C	0.3500	03250		
02/10/18 _d	218	3.8	Q.	0.0500	S S	0.1250	1.4800	1.4800	0.7450	0.7900	0.2350	0.2350
Relati	Relative Percent Difference (RPD)	1 1		ND		Ð	11	33.2394	1 1	0.6689		45.4308
02/14/18	300	3.0	ď.	00500	Į.	0.000						
02/14/18	206	3.9	N *	***************************************	æ *	0.1250	1.6800	1.6800	1.4900	1.4900	0.5790	0.5790
Relati	Relative Percent Difference (RPD)	1 1		*		*		*		*	+	*
01170100												
02/24/18	141	8.8	2 2	0.0500	S	0.1250	B	0.0500	QN	0.050.0	ND	0.0500
Relativ	Relative Percent Difference (RPD)	- 1		ONCO:		00770	- 1	0.9610	- 1	1.5000	0.4750	
								0.11.0	011	0060.7	01-	-101.9048
03/04/18	105	8.5	*	*	*	*	*	*	*	*	*	*
U3/U4/18 _d	No IUS Deletive Dercent Difference (DDD)		*	*	*	*	*	*	*	*	*	*
Weigh	ve reicelli Dinerelice	(NED)						*		*		*
03/10/18	155	<u>7.9</u>	QN	0.0500	QN	0.1250	0.1790	0.1790	ND	0.0500	ND	0.0500
U3/10/10g	Relative Percent Difference (RPD)		•	*	*	*	*	*	*	*	*	*
03/16/18	152	8.9	8 8	0.0500	2	0.1250	0.2110	0.2110	8	0.0500	QN	0.0500
Relativ	Relative Percent Difference (RPD)	1 1		ND		ND ON		26.2735		ONCO.O.		0.0500 ND
8176760	100	7.8	Ę,	00500	1	0 1250	0.00			-		
03/22/18 _d	102	7.8	28	0.0500	2 2	0.1250	0.3950	0.3950	9 5	0.0500	2 2	0.0500
Relativ	Relative Percent Difference (RPD)	(RPD)		ND		ND ND	11	7.6216		ND		ODCO:O
04/03/18	140	73	Ę	00500	ğ	0 1250	00110	1 001100	1			
04/03/18 _d	140	7.3	Q.	0.0500	E E	0.1250	0.1650	0.1150	2 2	0.0200		0.0300
Relativ	Relative Percent Difference (RPD)	(RPD)		Q.		ND PD	1 1	-37.4101		ND		ND
04/00/18	32		2 5900	0.830		0.555	4	10000		-		
04/09/18	32	5.1	*	***************************************	QN *	0.1250	QN*	0.0500	4.9200	4.9200	2.4400	2.4400
,						II				-	+	•

FORMOSA VOC CANISTER ANALYSIS 4th QUARTER 2018 POINT COMFORT - PC SITE DUPLICATE SAMPLE SCHEDULE

SAMPLE DATE	AVGWIND	AVC WIND	11.3	LETUVI ENE	The state of the s		- 11					
	DIRECTION	SPEED (mph)	Actual	1/2 Reported LOD	Actual	1/2 Papared I On		BENZENE	VINYL	VINYL CHLORIDE	ETHYLENE	ETHYLENE DICHLORIDE
	(Degrees)		(qdd)	(bpb)	(gdd)	UCI Reported LUU	Actual (pob)	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD
Relative	Relative Percent Difference (RPD)	(RPD)		*		×		*		**	(add)	(bbb) *
04/17/18	144	0.1	C.	0.0000								
04/17/18 _d	4	9.7	2 2	0.5000	9 8	0.1250	0.1650	0.1650	QN	0.050.0	ND	0.0500
Relative	Relative Percent Difference (RPD)			ND ON		0C1.0	- 1	- 1	QN	0.0500	ON	0.0500
						CINI	3.	35.2133		ON		ND
04/21/18	108	6.4	ND	0.0500	QN	0.1250	0.1840	0.1840	QN	0.0500	CN	00000
04/21/18 _d	108	6.4	QN	0.0500	ND	0.1250	0.1880	0.1880	QN	0.0500	G G	0.0500
Kelative	Relative Percent Difference (RPD)	(RPD)		QN		ND		2.1505		QN		QN
SIZCIPU	33.8	2.0	ME	000000								
04/27/18.	336	2.7	ON S	0.0500	Q	0.1250	0.5380	0.5380	2,2300	2.2300	0.2050	0.2050
Relative	Relative Percent Difference (PPD)			0.0000	ON		- 1		2.8200	2.8200	0.1990	0.1990
				Jun		ON	P	-6.4748	-2	-23.3663	2.	2.9703
05/03/18	125	66	ND	0.0500	S	0.1250	0.1030	02610	4	00000		
05/03/18 _d	125	6.6	si	*	*	*	*	W. 4.200	NO.	0.0500	QN.	0.0500
Relative	Relative Percent Difference (RPD)	RPD)		N		*		*		*		f
06711710	001											
05/11/18	122	6	QN SN	0.0500	Q.	0.1250	ND	0.0500	ND	0.0500	S.	0.0500
Relative	Relative Percent Difference (RPD)			OUCO,U	ON	1				0.0500	ND	0.0500
	and the same same	To No.		ND ON		ON ON		QN		QN		ND
81/51/50	125	5.6	ND	0.0500	ND	0.1250	S	0.090.0	9	00000	4	
05/15/18 _d	125	5.6	QN	0.0500	ND	0.1250	0.1410	0.1410	Q Q	0.0500	QN CN	0.0500
Relative	Relative Percent Difference (RPD)	RPD)		ND		ND		-95.2880		QN	P	ON ON
81/18/50	861	0.00	dia	0.0000	4					П		
05/31/18,	128	0.00	QN QN	0.0500	ON ON	0.1250	QN S	0.0500	Q.	0.0500	ND	0.0500
Relative	Relative Percent Difference (RPD)	1		ON		001.00		0.0500			Q.	0.0500
								ND ON		ND ON		CIN
06/08/18	121	7.2	ND	0.0500	QN	0.1250	QN	0.0500	CN	00500	ON ON	0.0000
06/08/18 _d	121	- 1			QN	0.1250	0.1370	0.1370	QN	0.0500	GN.	2,0000
Relative	Relative Percent Difference (RPD)	RPD)		QN		QN	-93	-93.0481		ND		ND
06/14/18	123	69	GZ.	0 0500	4							
06/14/18,	122	69	Q. CN	0.0500	ON CIN	0.1250	0.1490	0.1490	QN	0.0500	ND	0.0500
Relative	Relative Percent Difference (RPD)			ND NOON		0.1230	- 1				QN	0.0500
						- Control of the cont	77-	0680:77		QN		ND
06/20/18	105	5.3	ND	0.0500	ND	0.1250	0.1230	01230	0395.0	0.306.0	00000	00000
P81/05/90	105		*	44	*	*	*	*	*	**	**	0.0200
Relative	Relative Percent Difference (RPD)	RPD)										
06/26/18	123	3.6	GN.	00000	1							
06/26/184	123	7.5	ON ON	0.0000	G S	0.1250	Q g	0.0500	QN .	0.0500	ND	0.0500
Relative	Relative Percent Difference (RPD)	1 1		ND		ND		ND O'TOWN		0.1000 ND		0011000
01170001						П						
10004/18		4.8	Q.	0.5000	ON	1.2500	1,0900	1.0900	ND	0.5000	ND ND	0.0500
Relative	Relative Percent Difference (RPD)	- 10		02000	1	1,2500	0.1110	0.1110			QN	П
						ND ND	163	163.0308		NO.		ND
10/10/18	34.	3.8	QN	0.0500	QN 48	0.1250	0.7510	0.7510	0.9960	09660	0.9980	08660
Relative	Relative Percent Difference (RPD)			ON ON		ND 0.1250		0.8850				
				П				1907	9.	3,3091	0.	6.7323
10/16/18	317	6.3	ND	0.0500	QN	0.1250	0.2080	0.2080	ND	0.0500	QN	0.0500

FORMOSA VOC CANISTER ANALYSIS 4th OUARTER 2018

4th QUARTER 2018
POINT COMFORT - PC SITE
DUPLICATE SAMPLE SCHEDULE

DERECTION 137 1351 135	SAMPLE DATE	AVCWIND	AVC WIND	1442	TOT DATE			. 11					
		DIBECTION	CPEED (moh)	- 1		U8 6.1	ADJENE	- 1	VZENE	VINYL C	HLORIDE	ETHYLENE	DICHLORIDE
		(Degrees)	Street (mpn)	(ppb)	I/2 Keported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD	Actual	1/2 Reported LOD
	10/16/184	317	6.3	ND	0.5000	CN	0.1250	(add)	(DDD)	(qdd)	(qdd)	(qdd)	(qdd)
	Relati	ve Percent Difference	ш	l	ı	ı	1	ш				ON	0.0500
					IND		ND.	K-	5.3048		ND NO		D
	10/22/18	351	4.8	GN	0.050.0	62	03610	0.3060	0.3050	4 4000			
1 1 2 2 2 2 2 2 2 2	10/22/18 _d	351	4.8	*	*	*	*	0.0000	0.5050	4.7800	4.7800	0.1290	0.1290
1.94 1.94 1.95	Relati	ve Percent Difference									*	*	*
179 234 235 240													
1.56 1.75	10/28/18	179	2.8	ND	0.0500	QN	0.1250	0.2960	0.2960	e.	0.0500	N.D.	00500
15 15 15 15 15 15 15 15	10/28/18 _d	179		×	*	*	*	*	*	*	*	*	4.0500
156 677 673100 673100 780 613500 780 613500 780 613500 780 7	Relati	ve Percent Difference	(RPD)										
1-56 6.67 6.0330 0.0330 0.0480 0.1250 0.0100 ND 0.0500 ND 0.0500													
156 156	11/03/18	136	6.7	0.3310	0.3310	ON	0.1250	0,1010	0.1010	QN	0.0500	NB	0.0500
11 12 13 14 15 15 15 15 15 15 15	11/03/18 _d	136		0.3360	0.3360	0.4800	0.4800	QN	0.0500	Q	0.0500	G. G.	0.0500
1	Relati	ve Percent Difference	(RPD)		.4993	011-					ı	ľ	
14 6.2 1.0													
Simple S	11/11/18	24	6.2	ND	0.0500	R	0.1250	0.4330	0.4330	0.8340	0.8340	03160	00100
Signature Sign	11/11/18	24	6.2	*	*	H	44	н	40	*	*	00100 *	0,5180
SS SS SS SS SS SS SS S	Relati	ve Percent Difference						1					
Signature (RPD)													
Auto-Percent Difference (APD) Auto-Percent Difference (APD	11/17/18	88	45	*	+	*	*	*	*	*	*		
446 644 ***	11/17/18,	88	4.5	*	×	*	*	*	*	*	. 3	. ,	3
46 604 8 8 8 8 8 8 8 8 8	Relati	ve Percent Difference											*
466 614 8													
A 5 1.05	11/23/18	46	0.4	*	*	¥	н	*	*	*	*	*	*
bigit ve Percent Difference (RPD) 3.2 ND 0.0500 0.2780 0.1770 0.1770 ND 0.0500 0.3900 8.234 0.1770 ND 0.0500 0.3900 8.234 0.1770 ND 0.0500 0.3940 0.1770 ND 0.0500 0.0340 0.1750 0.1750 0.1260 0.1260 0.0500 0.0560 <td>11/23/18_d</td> <td>46</td> <td></td> <td>*</td> <td>*</td> <td>*</td> <td>*</td> <td>34</td> <td>*</td> <td>*</td> <td>*</td> <td>*</td> <td>- 14</td>	11/23/18 _d	46		*	*	*	*	34	*	*	*	*	- 14
145 3.2 ND 0.05500 0.2780 0.1770 0.1770 ND 0.05500 0.3470 0.3470 0.1770 ND 0.05500 0.3470 0.3470 0.3470 0.1770 ND 0.05500 0.3470 0.3480 0.	Relati	ve Percent Difference	(RPD)										
145 3.2 ND 0.0500 0.2780 0.1770 0.1770 ND 0.0500 0.3070 0.3370 Altive Percent Difference (RPD) ND 0.0500 0.0580 0.1280 0.1280 0.2170 ND 0.0500 0.0500 ND 102													
145 145	11/29/18	145	3.2	QN	0.0500	0.2780	0.2780	0,1770	0.1770	GN	0.0500	03020	OF OF O
Ability e Percent Difference (RPD) ND -5.5944 -0.13046 ND -0.1364 ND -8.4243 102 102 1.9 ND 0.0500 ND 0.1250 0.2100 0.0580 0.1360 0.0580 0.0580 0.0580 0.0580 0.0580 0.0580 0.0580 0.0580 0.0580 0.0580 0.0580 0.0580 0.0580 0.0580 0.0580 ND 0.0580 ND 0.0580 ND -135.7143 -83.3315 -83.3315 235 6.7 ND 0.0500 ND 0.1550 ND ND ND -83.3315 4 biltie Percent Difference (RPD) ND 0.0500 ND 0.1760 0.1760 ND ND </td <td>11/29/18</td> <td>145</td> <td></td> <td>QN</td> <td>0.0500</td> <td>0.2940</td> <td>0.2940</td> <td>0.2170</td> <td>0.2170</td> <td>Q</td> <td>0.0500</td> <td>0.3340</td> <td>0.3340</td>	11/29/18	145		QN	0.0500	0.2940	0.2940	0.2170	0.2170	Q	0.0500	0.3340	0.3340
102 1.9 ND 0.0500 ND 0.1250 0.2340 0.1260 0.1260 0.2680 0.2680 Ability Percent Difference (RPD) 1.9 ND 0.0500 ND 0.1250 0.2100 0.0580 0.0580 0.0580 Ability Percent Difference (RPD) ND 0.0500 ND 0.1250 0.1550 0.1500 ND 0.0500 ND 0.1250 0.1568 ND 0.0500 ND ND 0.1250 0.1568 ND 0.0500 ND ND 0.1250 0.1760 ND 0.0500 ND ND 0.1250 0.1760 ND 0.0500 ND ND ND 0.1250 0.1760 ND	Relati	ve Percent Difference	(RPD)		ND	-5.	5944	-30					
102 1.5 1.5 ND 0.0500 ND 0.1250 0.2340 0.1260 0.1260 0.0260 ND 0													
billion line 1.9 ND 0.0500 ND 0.1250 0.2100 0.2000 0.0580 0.6510 0.6510 0.6510 0.6510 0.6510 0.6510 0.6510 0.6510 0.6510 0.6510 0.6510 0.6510 0.6510 0.6510 0.6510 ND 0.6510 ND 0.6510 ND 0.6510 ND 0.6500	12/07/18	102	1.9	QN	0.0500	ND	0.1250	0,3240	0.3240	0.1260	0.1260	0.2680	0.2680
Additive Percent Difference (RPD) ND 0.1250 0.1250 0.1550 ND 0.1550 ND 0.1550 ND 0.1550 ND ND 0.1550 ND ND ND 0.1550 0.1500 ND	P81//0/71	102		CN	0.0500	ND	0.1250	0.2100	0.2100	0.6580	0.6580	0.6510	0.6510
235 6.7 ND 0.0500 ND 0.1250 0.1550 ND 0.0500 ND ND ND 0.0500 ND ND ND ND ND ND ND ND	Relati	ve Percent Difference	(RPD)		ND	4	П	42.		1	1	10	
2.55 6.7 ND 0.0500 ND 0.1250 0.1550 ND 0.0500 ND 0	0000000												
Stative Percent Difference (RPD) 5.9 ND ND 0.1250 0.1250 0.2070 0.1250 0.1250 0.2070 0.1250 0.1250 0.2070 0.1250	1213/18	232	6.7	ON AN	0.0500	Q.	0.1250	0.1550	0.1550	ND	0.0500	ND	0.0500
106 5.9	Portor	200	- 1	ı			d			ND	0.0500	QN	0.0500
106 5.9	Reight	re rettent Dillerence	(KrD)		ON CAN		Q.	-12	.6888	2	D	4	D
106 5.9	81150701	106	0.5	QN.	0.0500	T.	O LOCK						
Abditive Percent Difference (RPD) Abditive Percent Difference (RPD) ND 0.1250 0.3200 0.3200 ND 0.0500 ND Additive Percent Difference (RPD) * * * * * * *	12/25/18	106	5.9	*	**	W *	0.021.0	0.2070	0.2070	0.1530	0.1530	08680	0.8980
254 3.2 0.7080 0.7080 ND 0.1250 0.3200 0.3200 ND 0.0500 ND 254 3.2 *	Relativ	ve Percent Difference	1			0				-			2
254 3.2 0.7080 0.7080 ND 0.1250 0.3200 0.3200 ND 0.0560 ND Jakive Percent Difference (RPD) * * * * * * *													
254 3.2 * * * * * * * * * * * * * * * * * * *	12/31/18	254	3.2	0.7080	0.7080	QN	0.1250	0.3200	0.4200	CZ	00500	GN.	0.0500
Dative Percent Difference (RPD)	12/31/18	254	3,2	H	*	**	*	H	*	*	NOODEN K	ON.	0,000
	Relativ	ve Percent Difference											

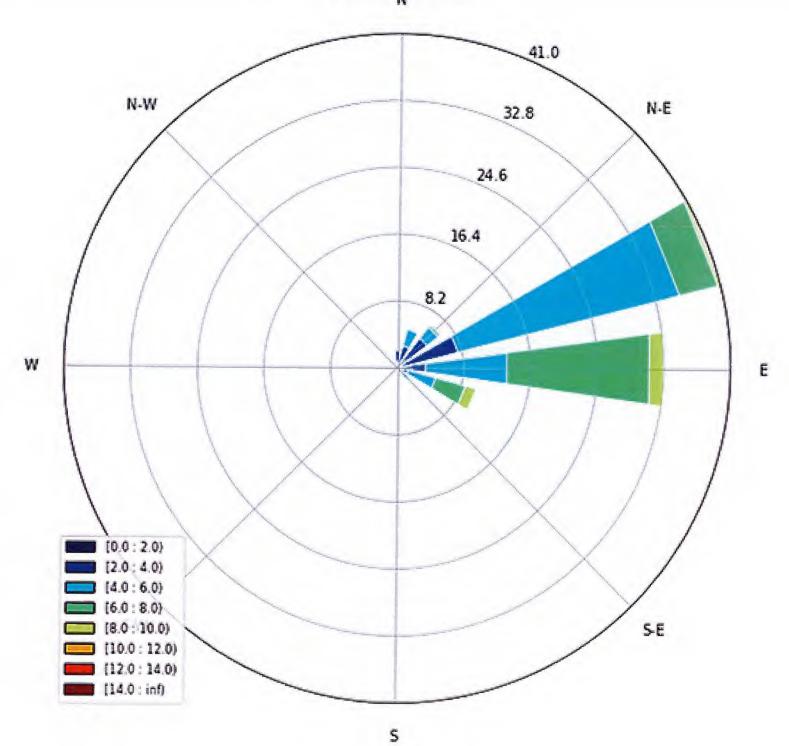
d - Duplicate sample taken in addition to the routine sample (See Calculation Methodology for information on inclusion of duplicate sample results.)

^{* -} non operational, data from the North site was used for Wind Direction and Wind Speed, if available

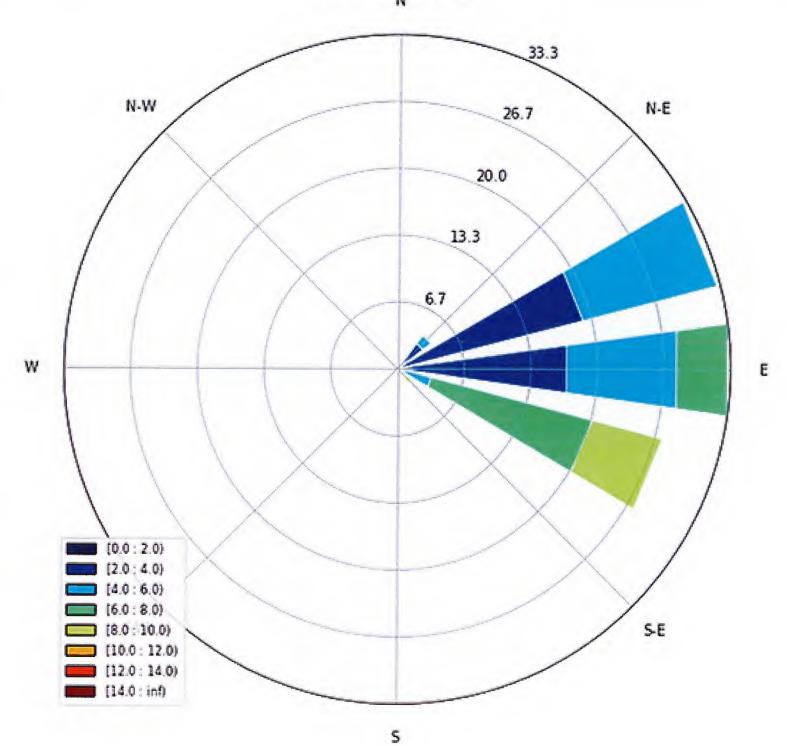
Summary of Non-operational Periods 4th QUARTER 2018 Point Comfort SUMMA Canister System

Corrective Action	AECOM was unable to verify the cause. Next run was successful.	Adjusted flow controller to decrease amount sampled.		More cans are in the process of being ordered.	Cycled nower sumply Connectivity was restored	More cans are in the process of being ordered	Adjusted flow controller to decrease amount sampled	Adjusted flow controller to decrease amount sampled	There is a constant and the same of the sa	More cans are in the process of being ordered.
Description of Problem	Samples did not run due unknown reasons.	Voided sample due to low pressure.	Sample leaked below 25" prior to run.	No SUMMA cans available.	Sample did not run due to connectivity issues	No SUMMA cans available.	Voided sample due to low pressure.	Voided sample due to low pressure.	Sample leaked below 25" prior to run.	No SUMMA cans available.
Date (s)	10/6/18	10/24/18	10/26/18	11/1/18	11/17/18	11/23/18	12/7/18	12/9/18	12/15/18	12/25/18
SUMMA Site	City Hall & Formosa Training Complex	PC	Formosa Training Complex	City Hall, Formosa Training Complex, & Park	PC, City Hall & Park	PC	Formosa Training Complex	PC	Formosa Training Complex	City Hall, Formosa Training Complex, & Park

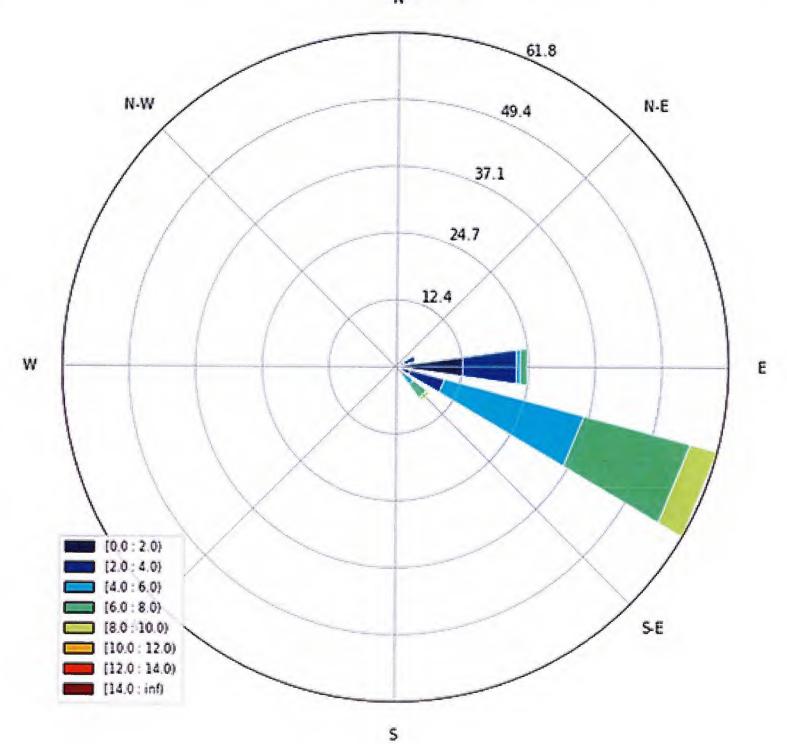
FPC: Oct 1 2018



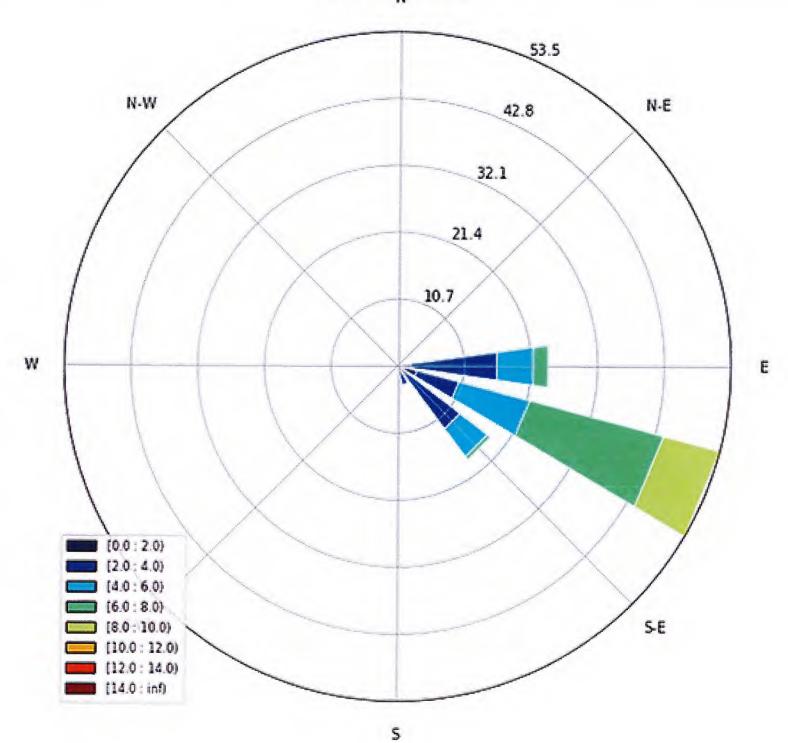
FPC: Oct 2 2018



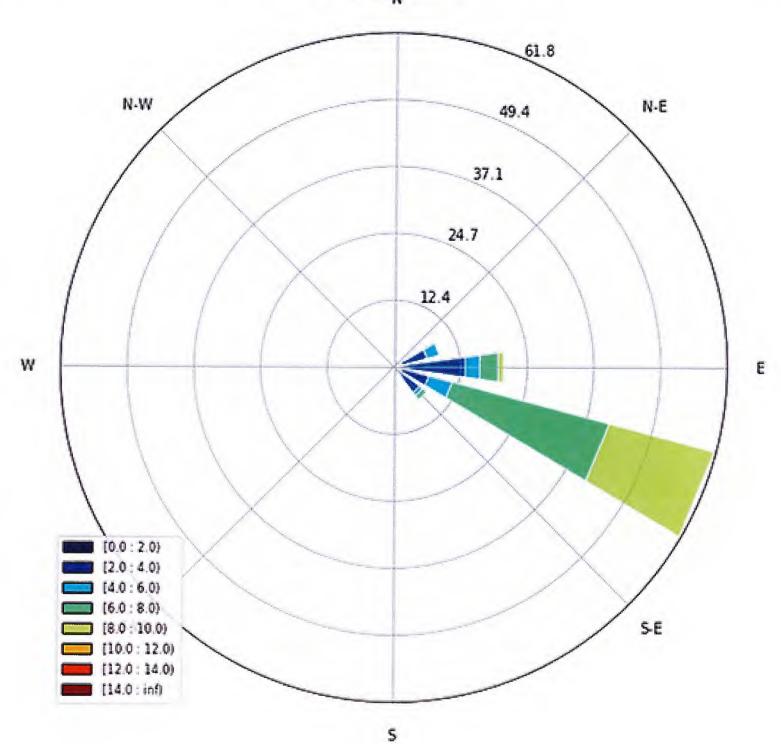
FPC: Oct 3 2018



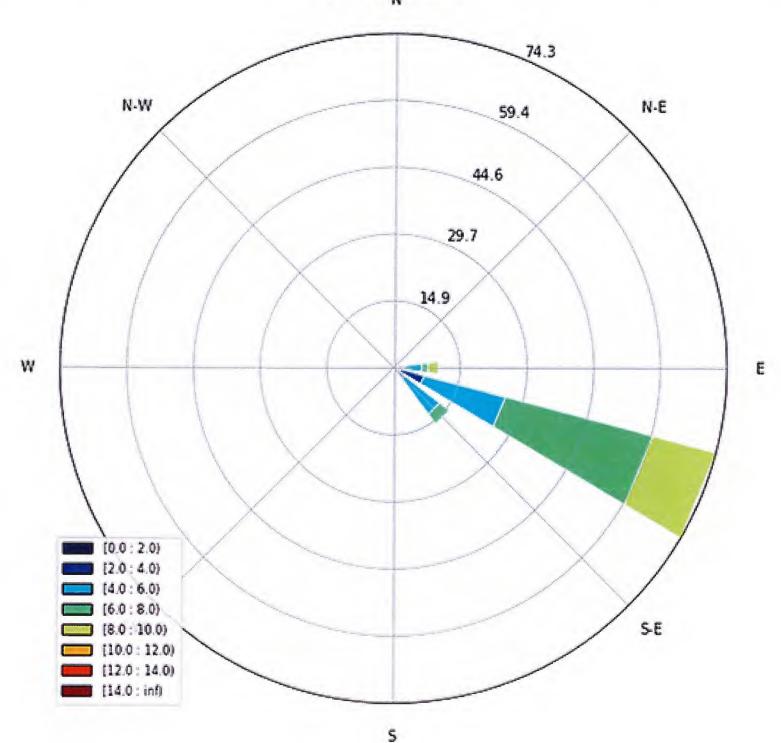
FPC: Oct 4 2018



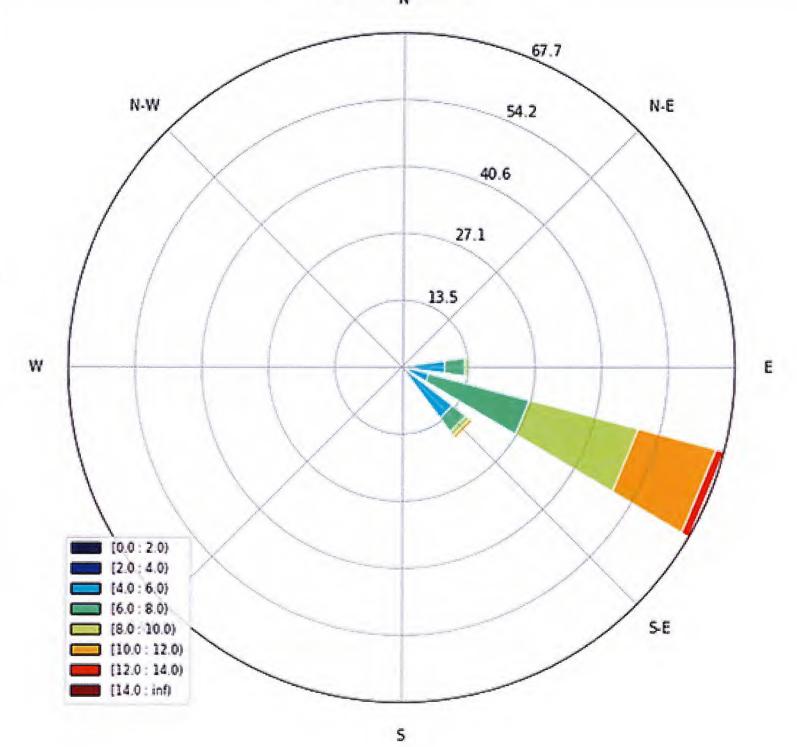
FPC: Oct 5 2018



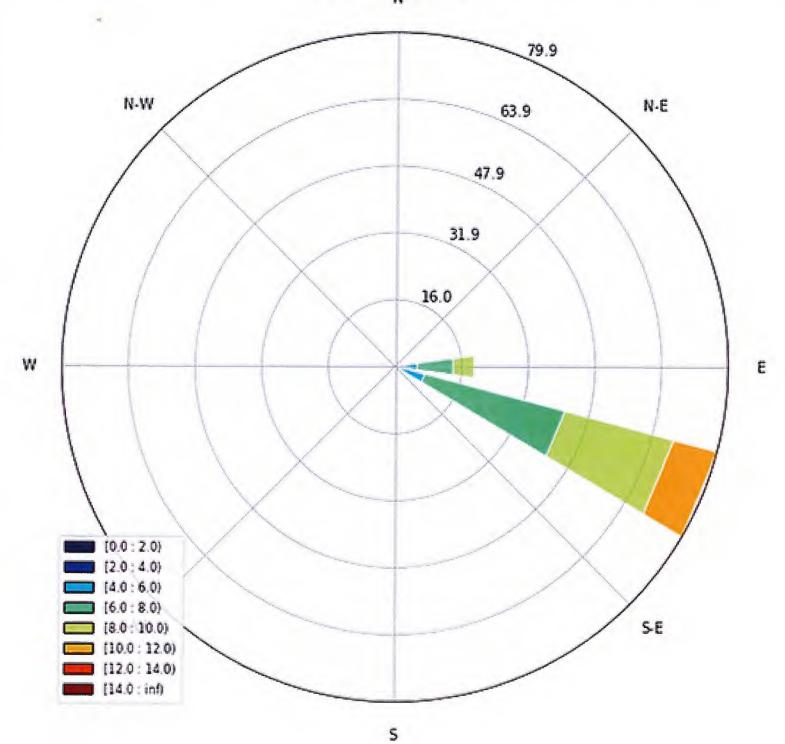
FPC: Oct 6 2018



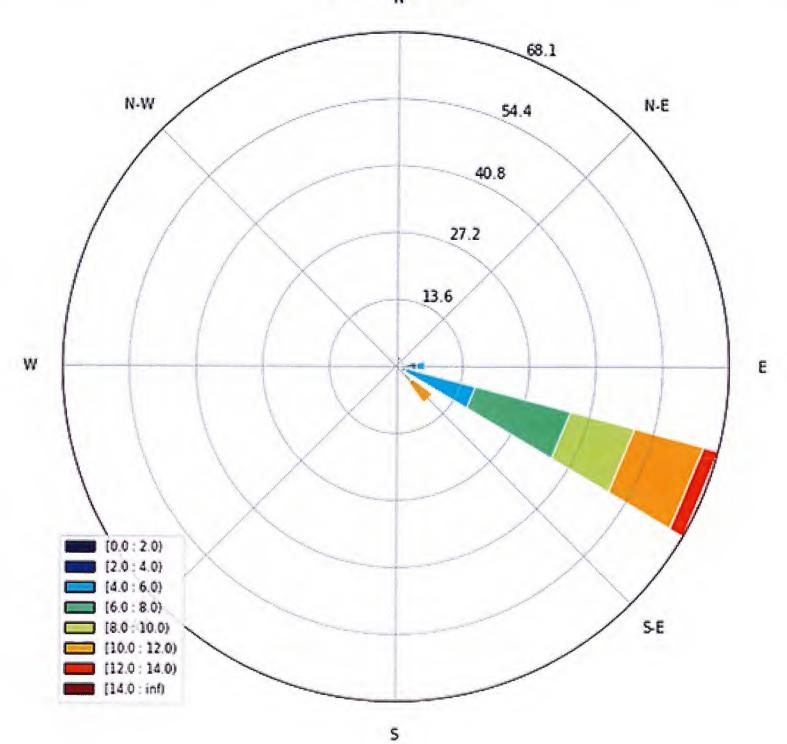
FPC: Oct 7 2018



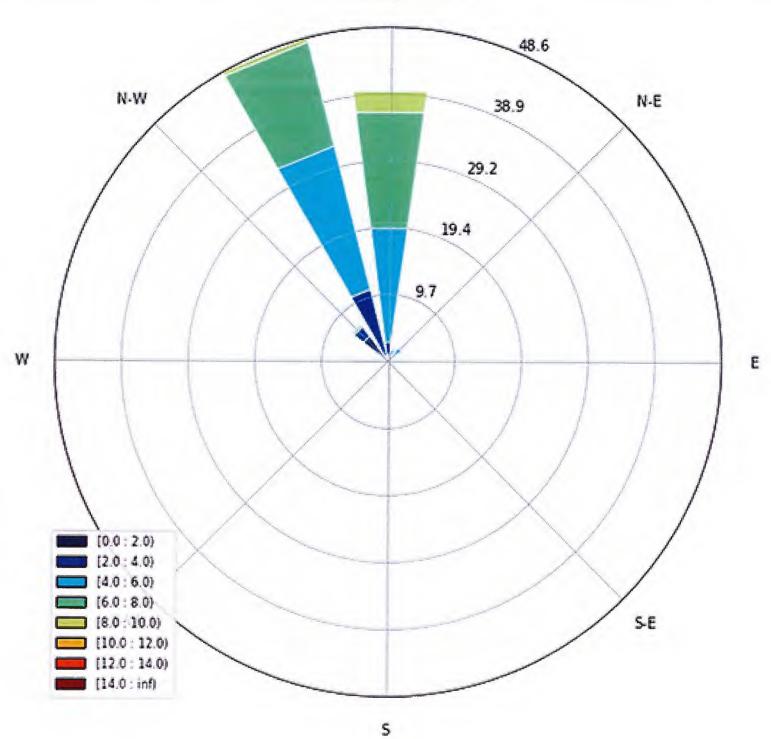
FPC: Oct 8 2018



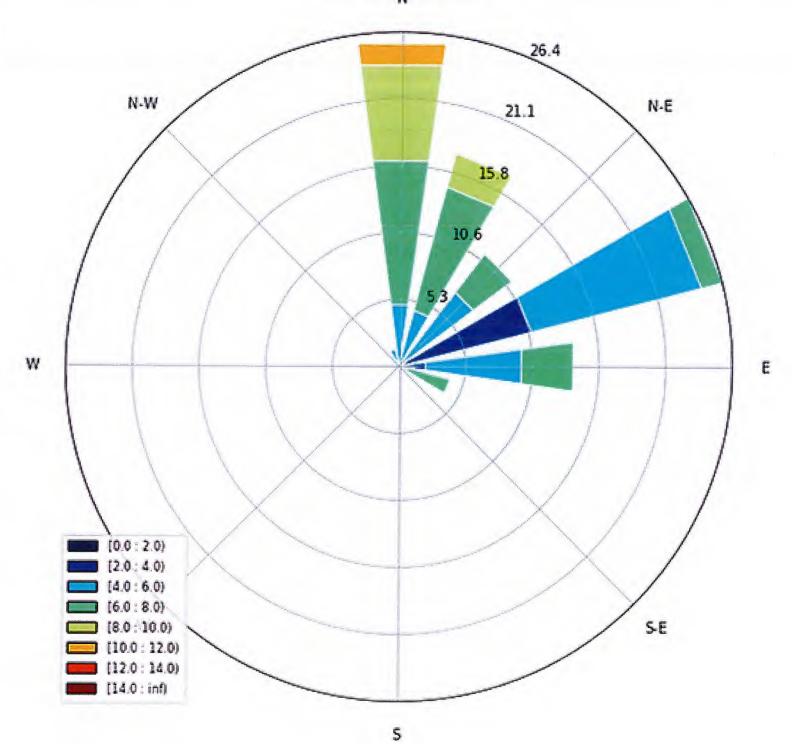
FPC: Oct 9 2018



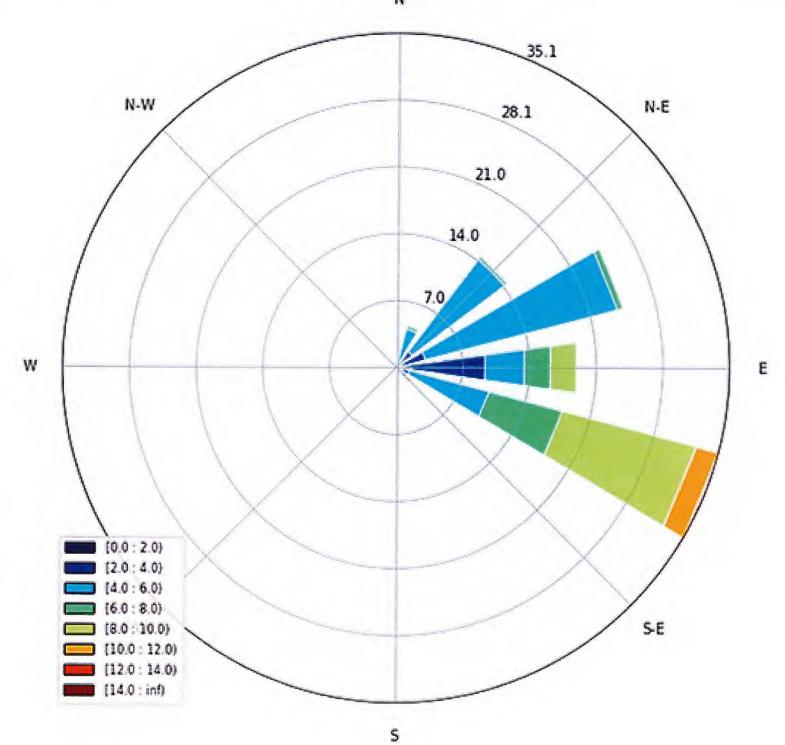
FPC: Oct 10 2018



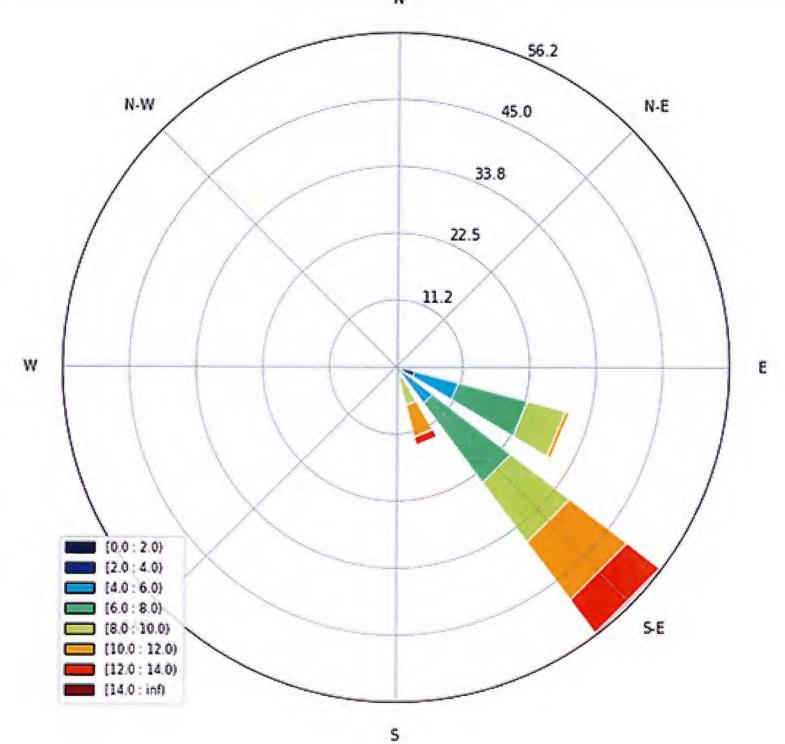
FPC: Oct 11 2018



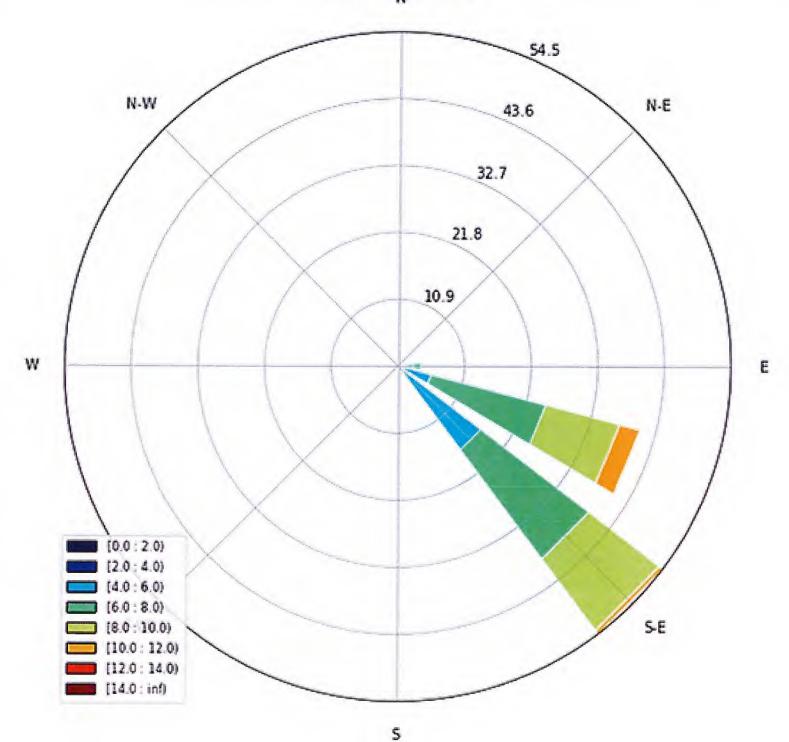
FPC: Oct 12 2018



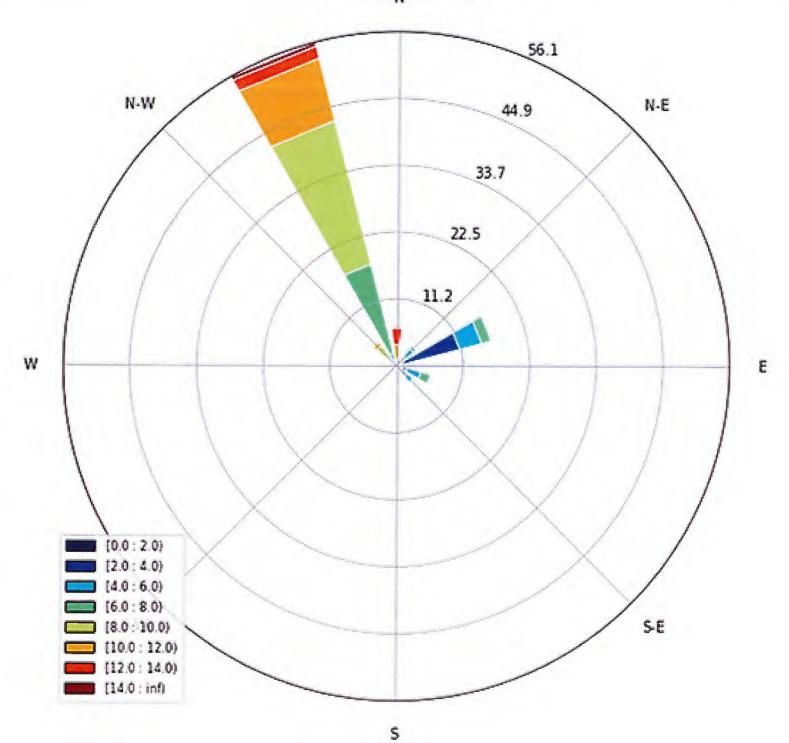
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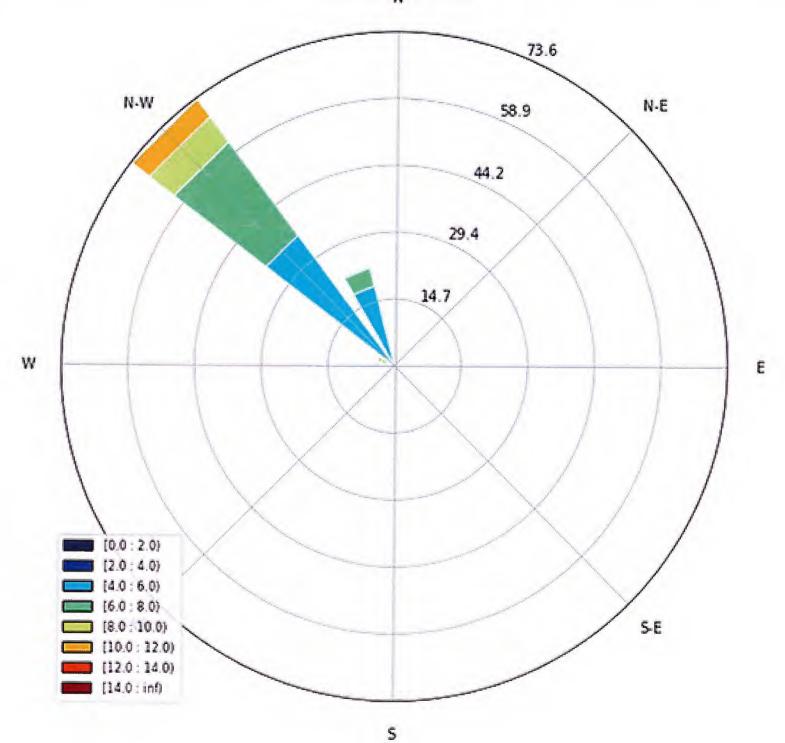
FPC: Oct 14 2018



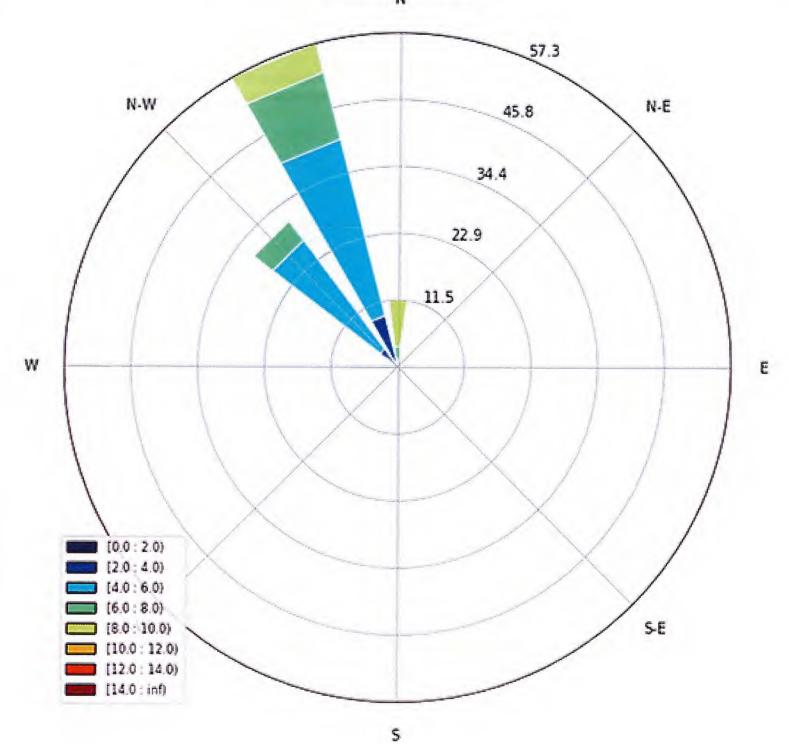
FPC: Oct 15 2018



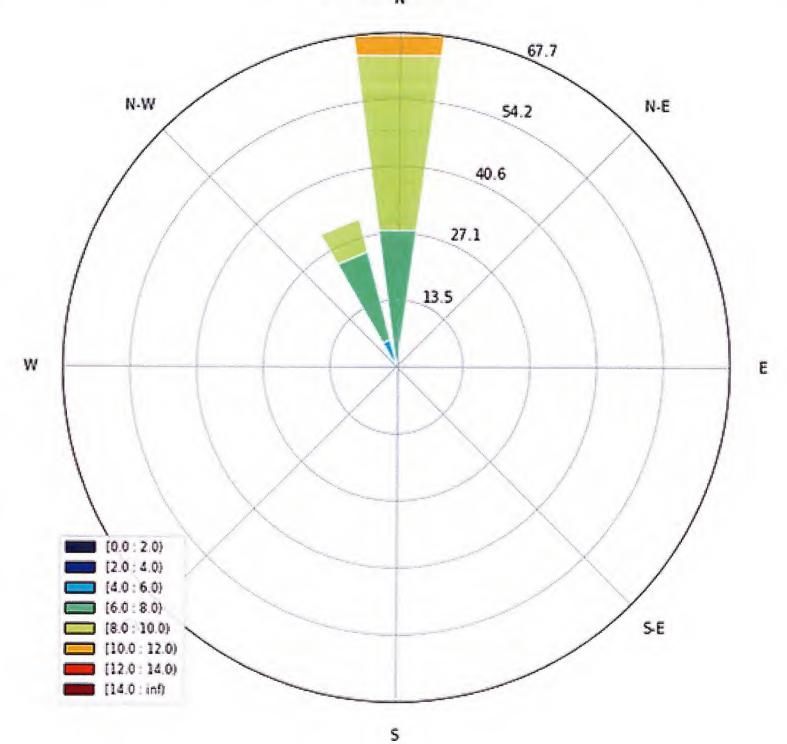
FPC: Oct 16 2018



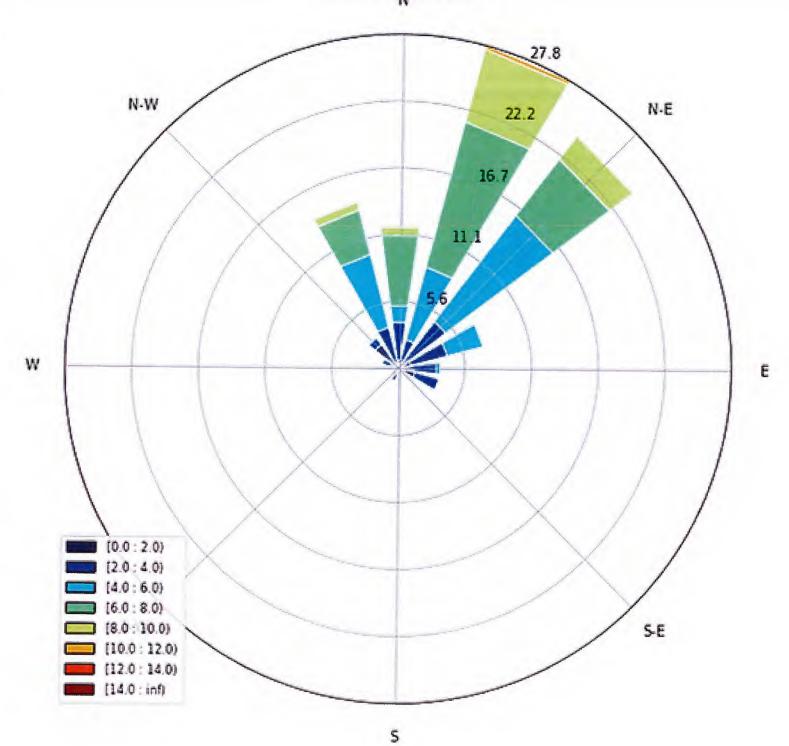
FPC: Oct 17 2018



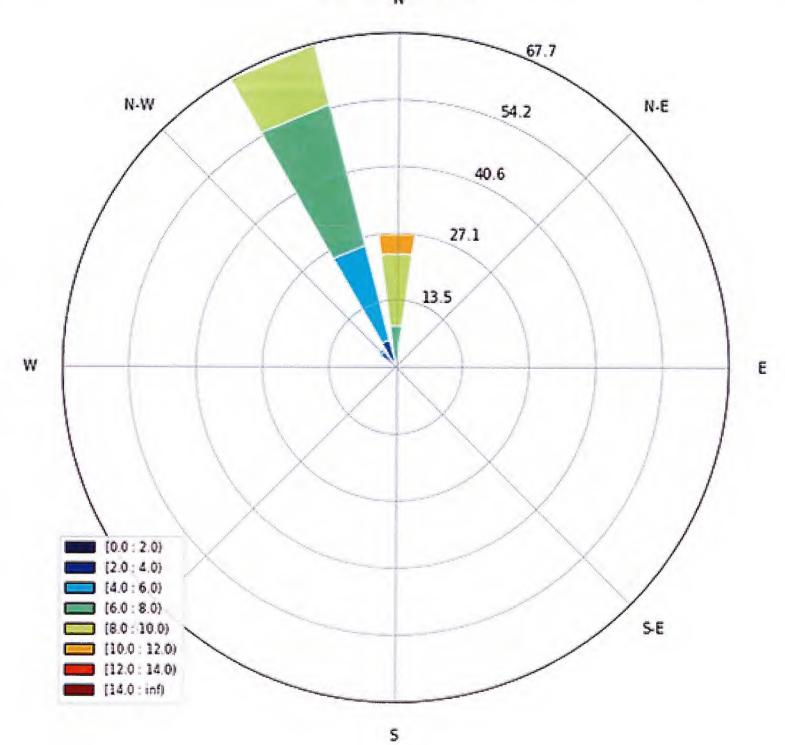
FPC: Oct 18 2018



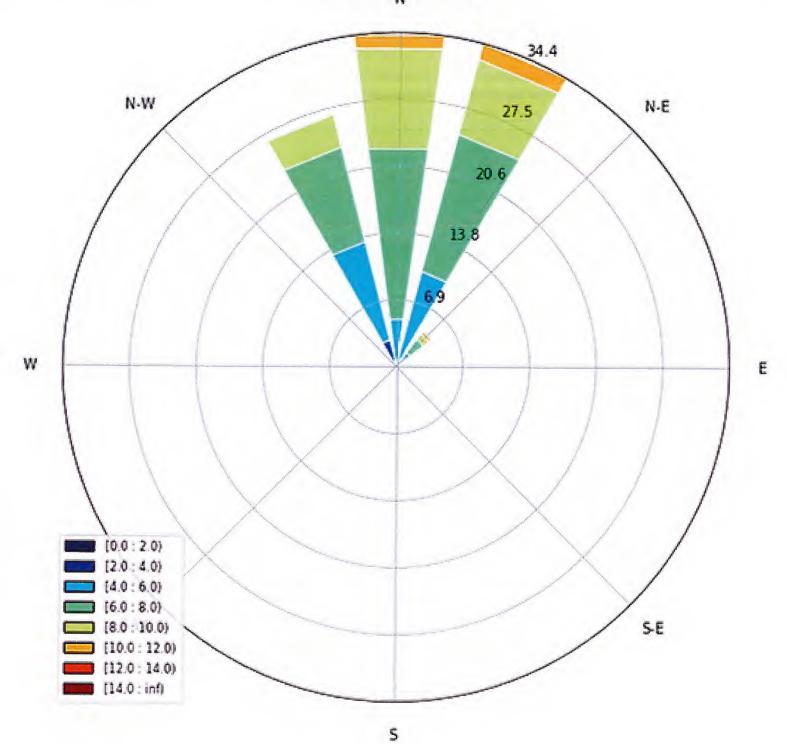
FPC: Oct 19 2018



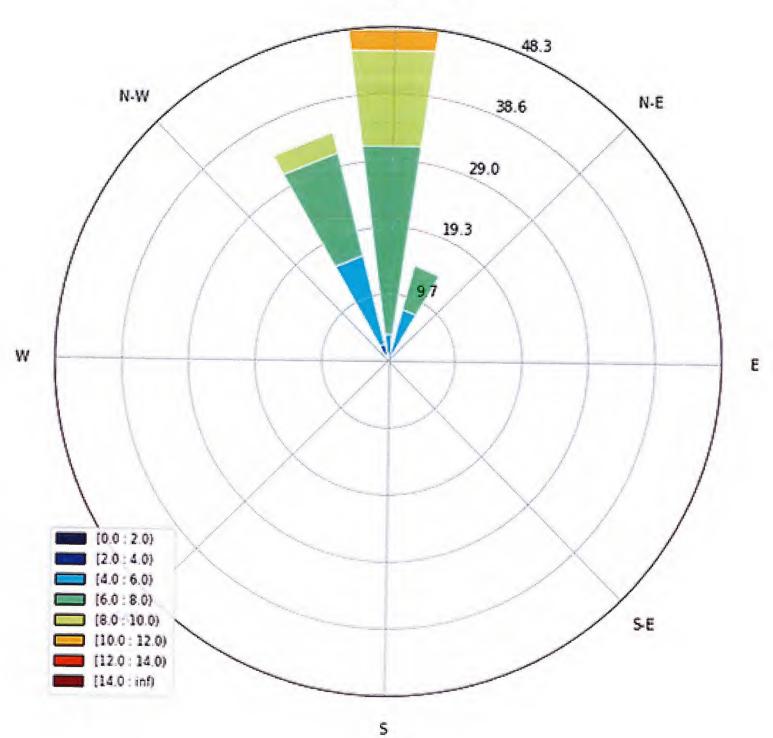
FPC: Oct 20 2018



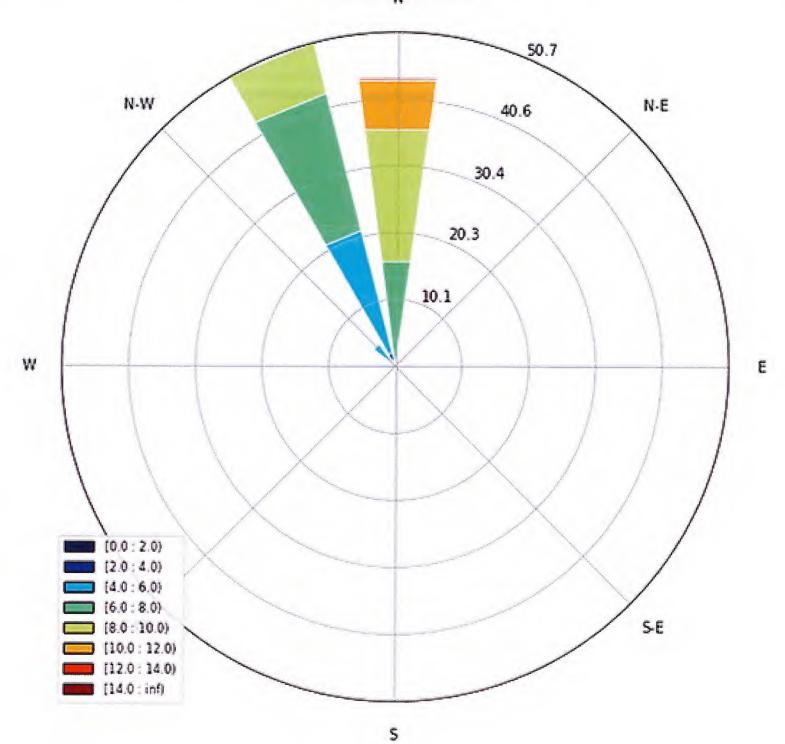
FPC: Oct 21 2018



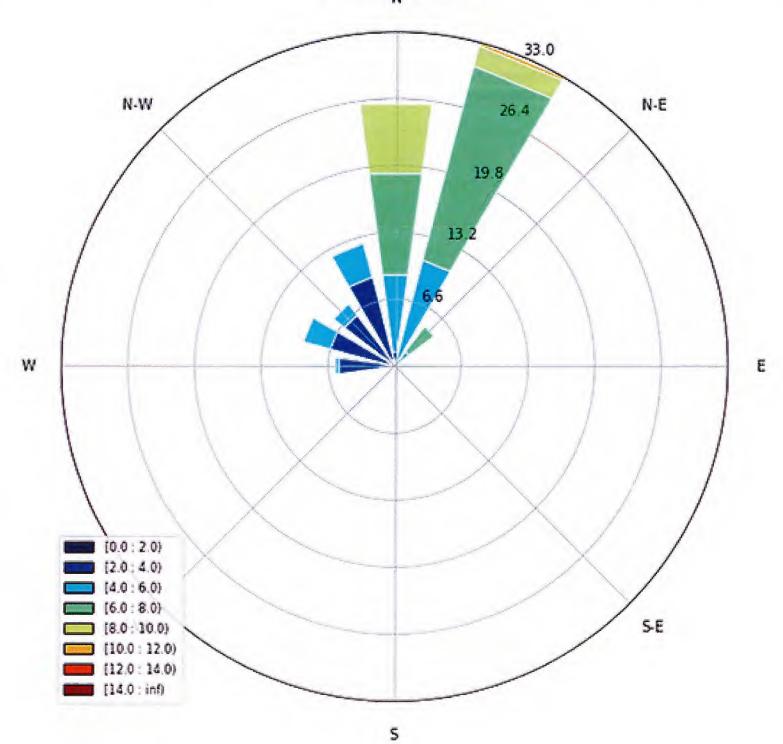
FPC: Oct 22 2018



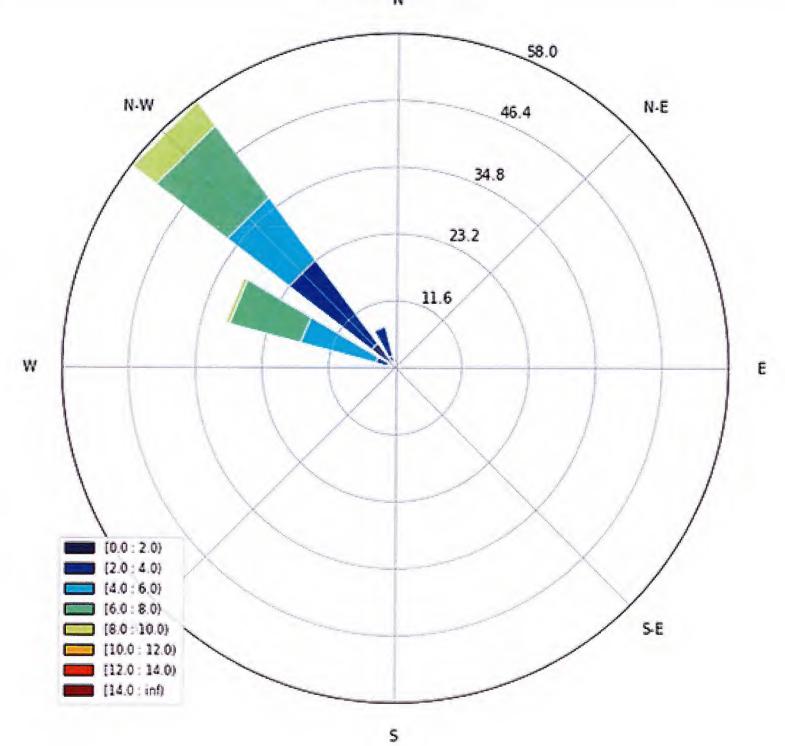
FPC: Oct 23 2018



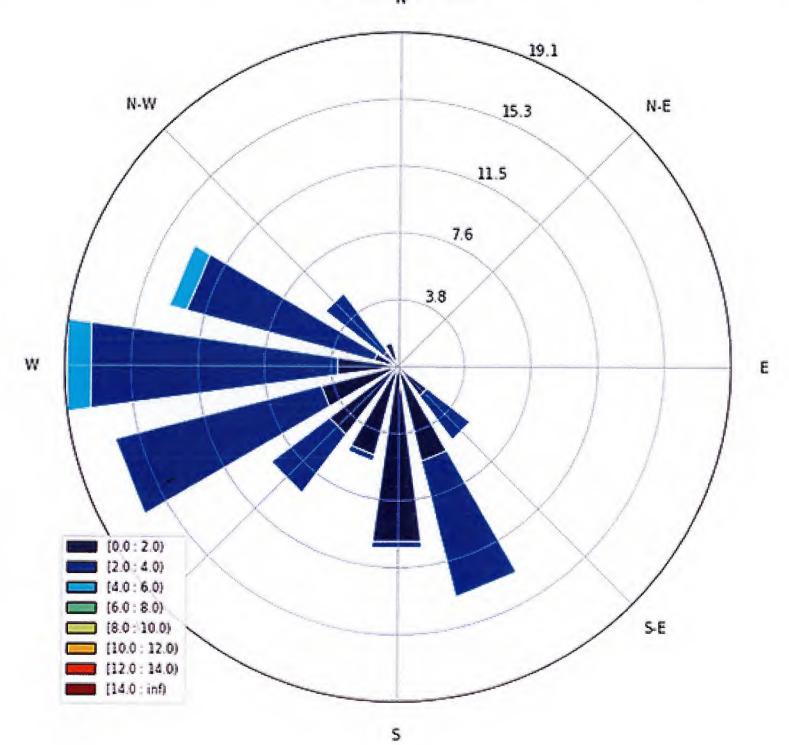
FPC: Oct 24 2018



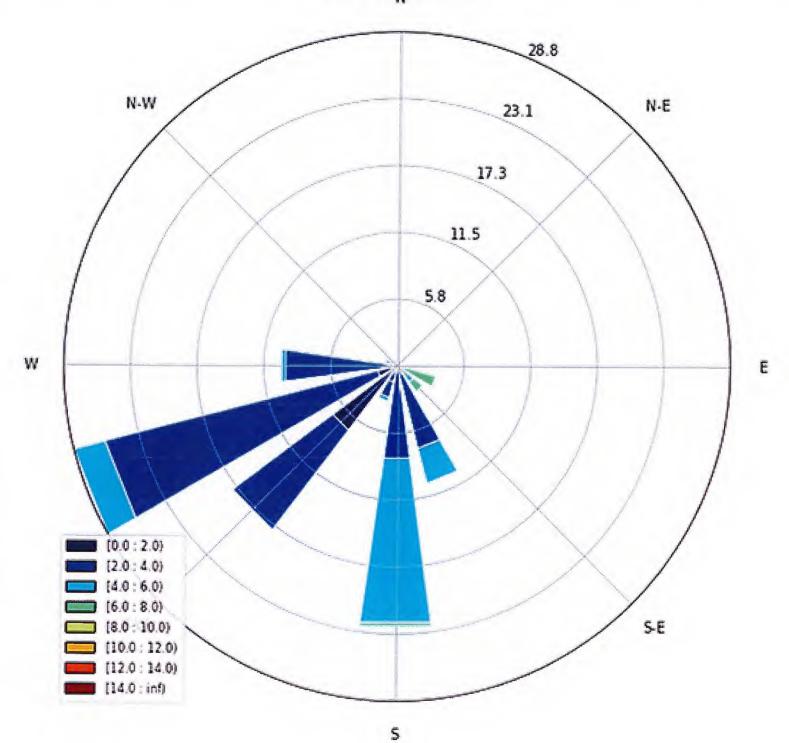
FPC: Oct 25 2018



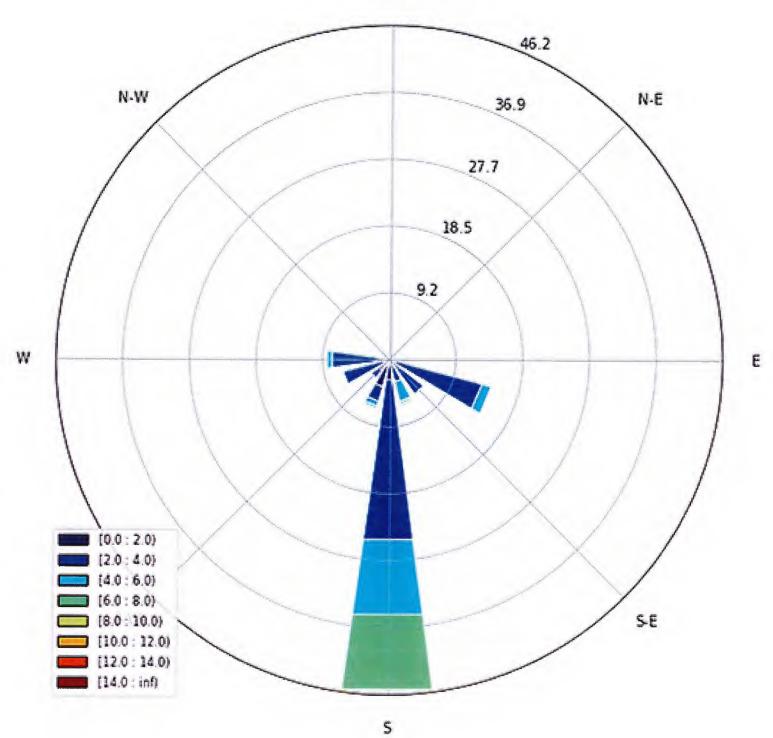
FPC: Oct 26 2018



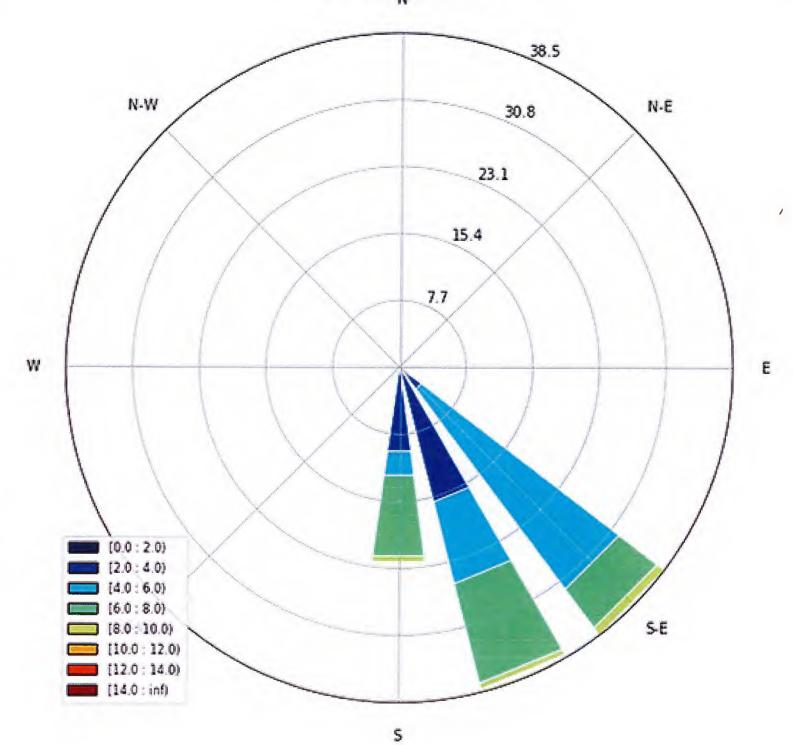
FPC: Oct 27 2018



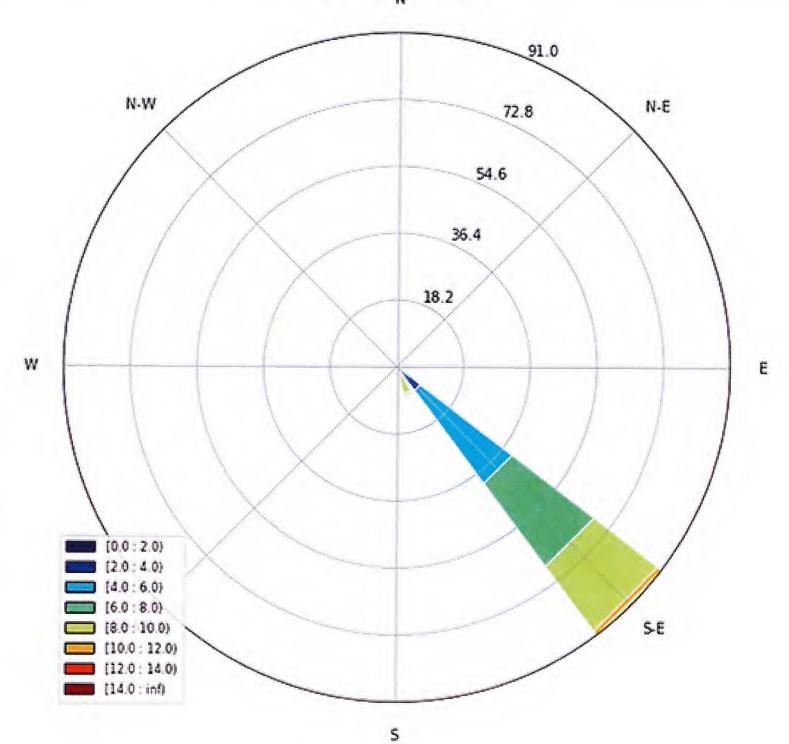
FPC: Oct 28 2018



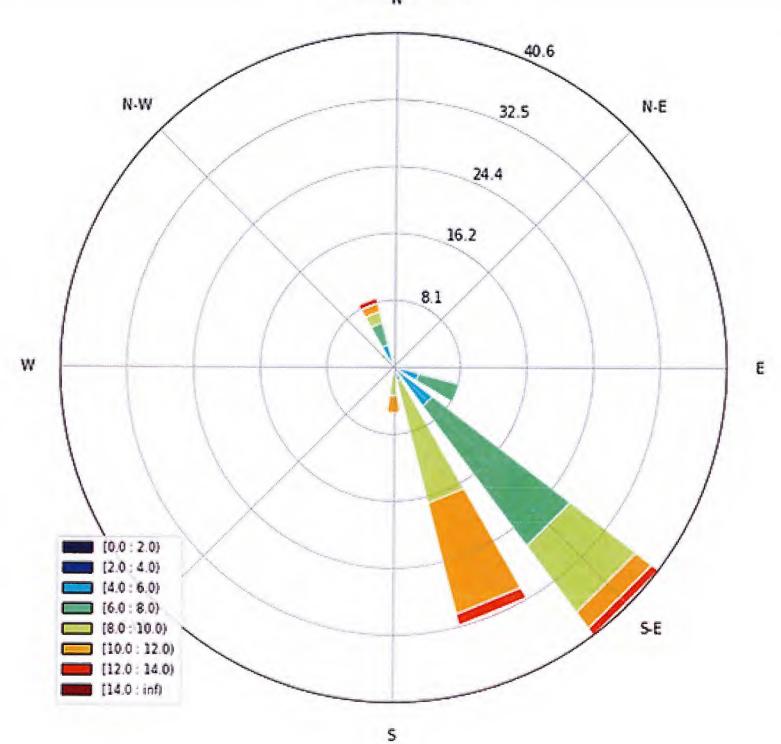
FPC: Oct 29 2018



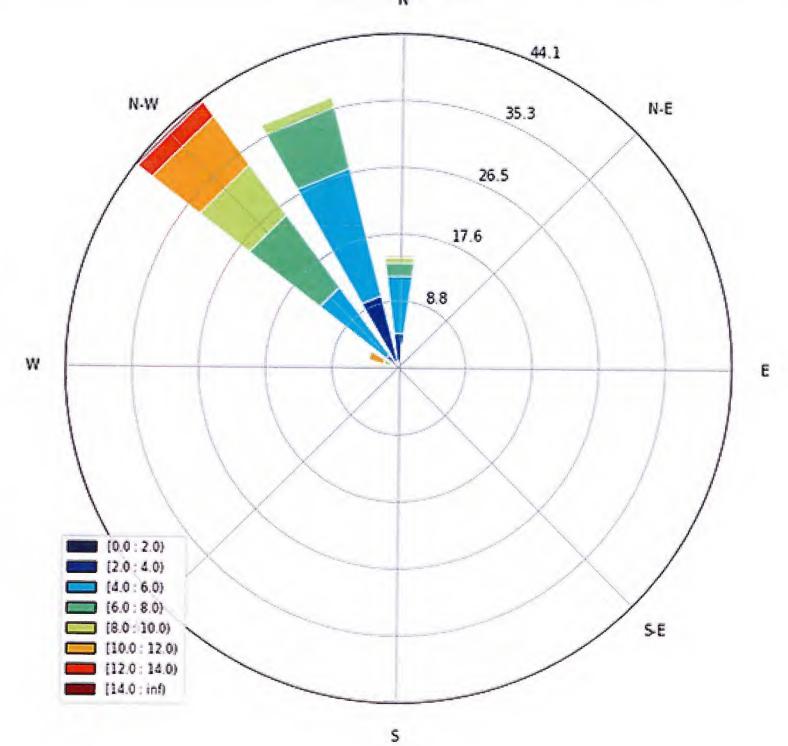
FPC: Oct 30 2018



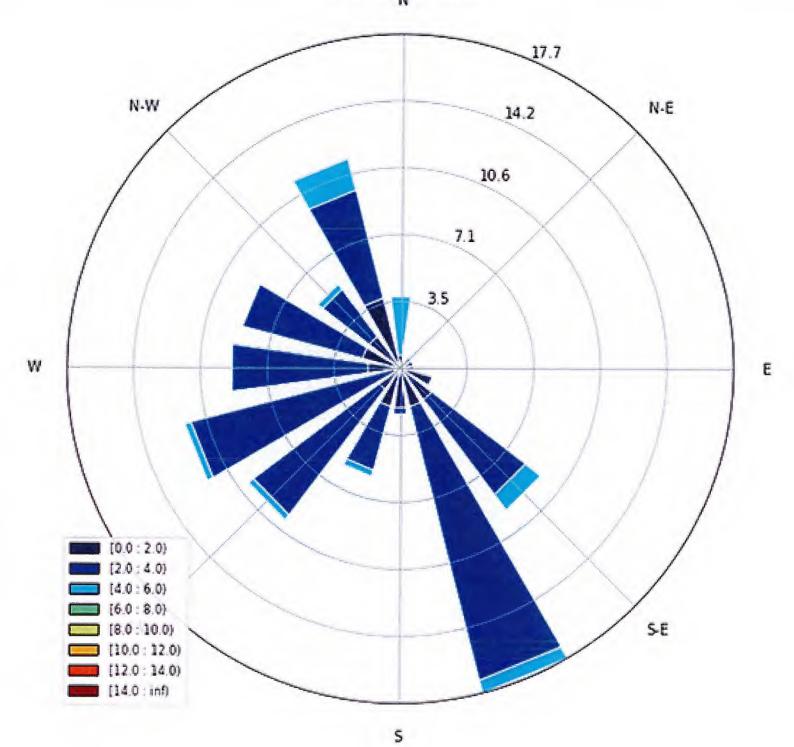
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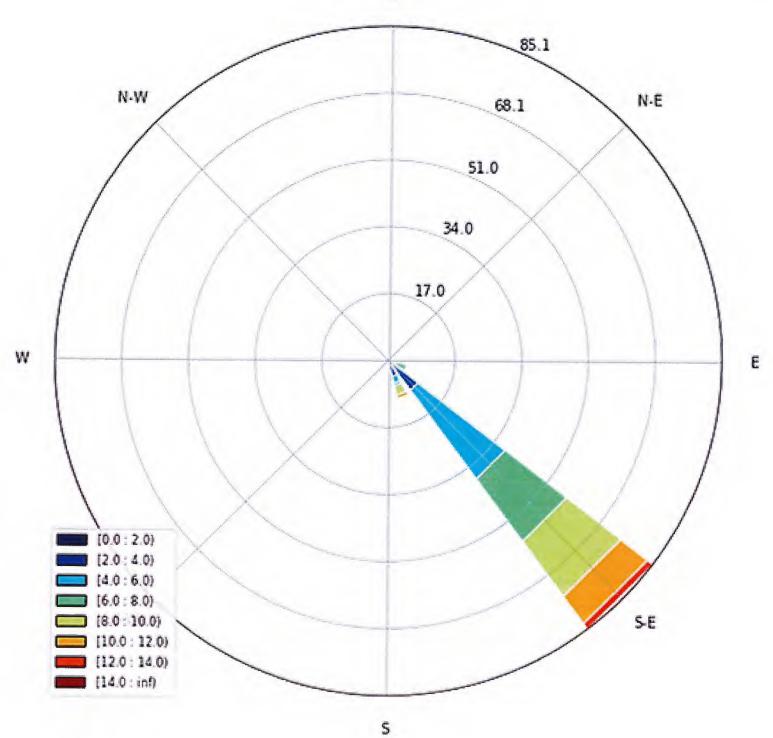
FPC: Nov 1 2018



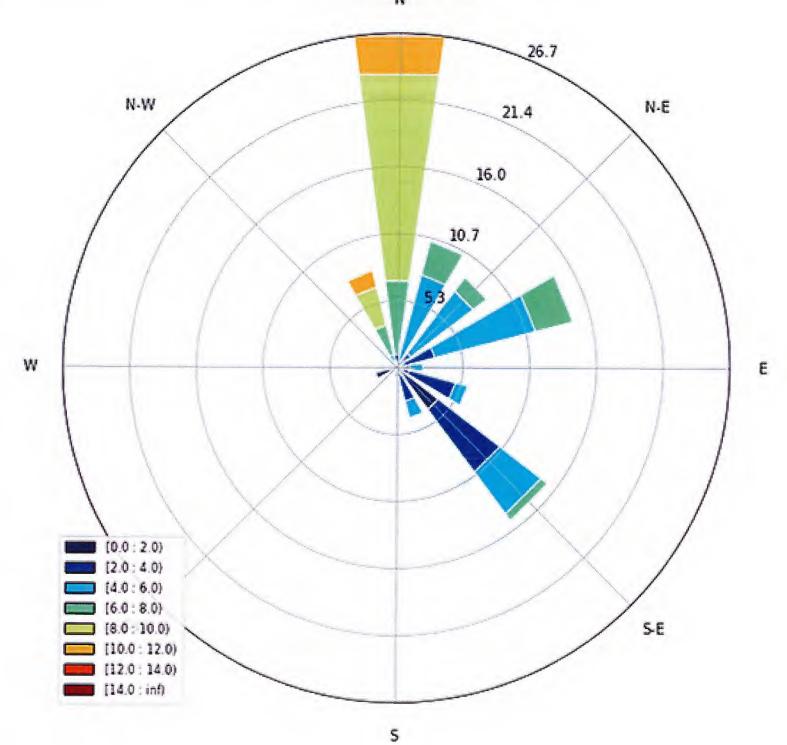
FPC: Nov 2 2018



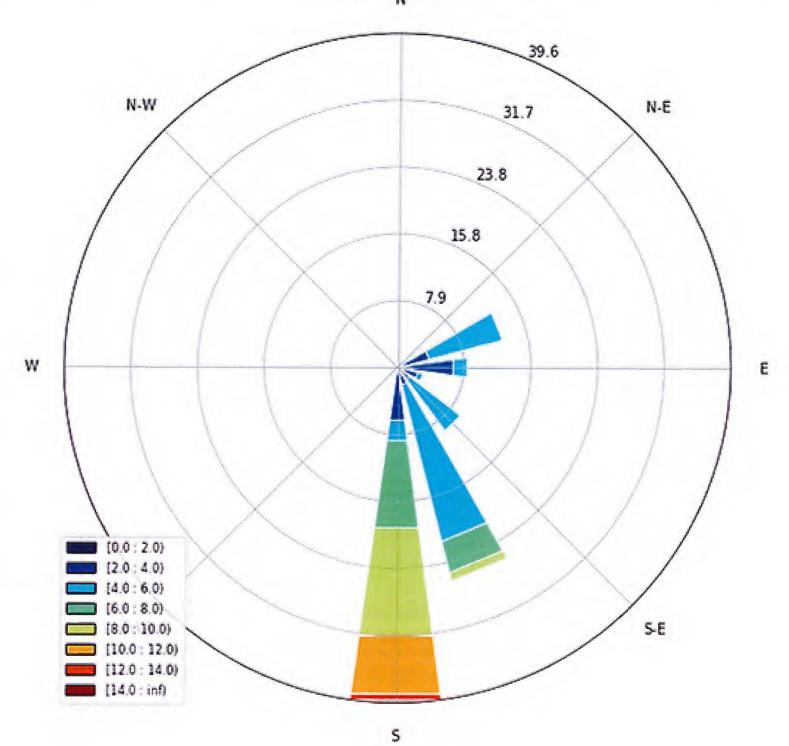
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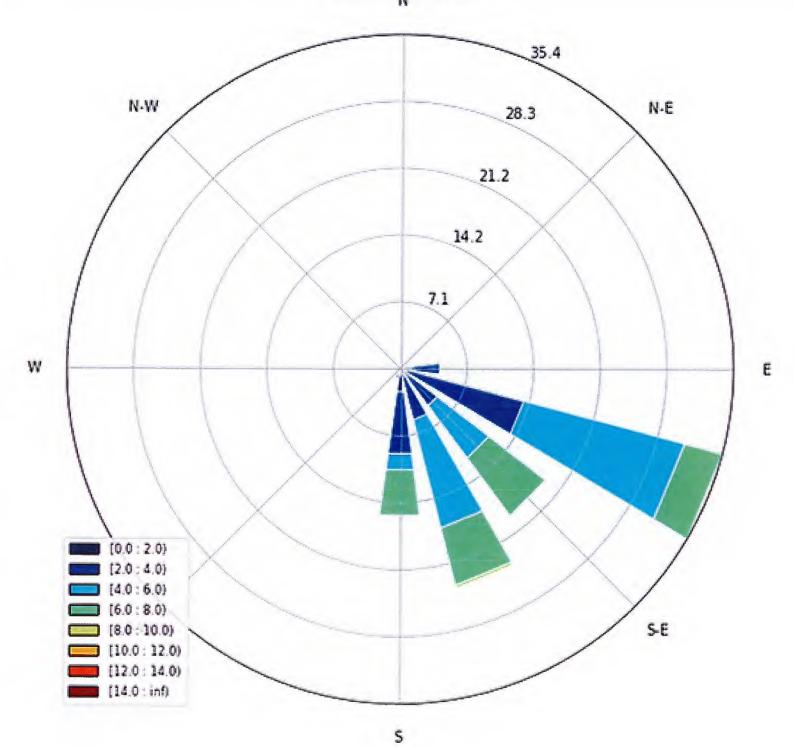
FPC: Nov 4 2018



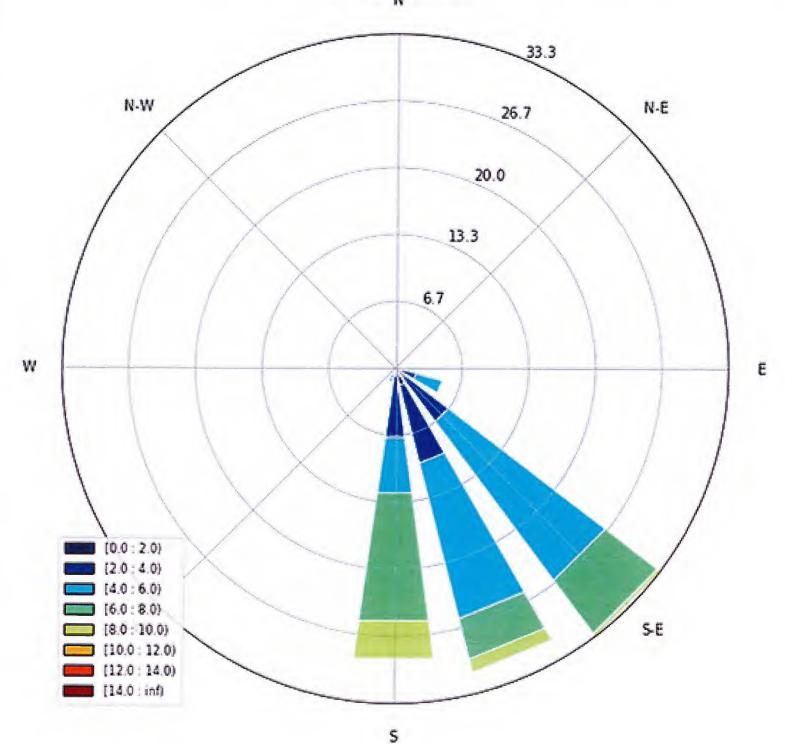
FPC: Nov 5 2018



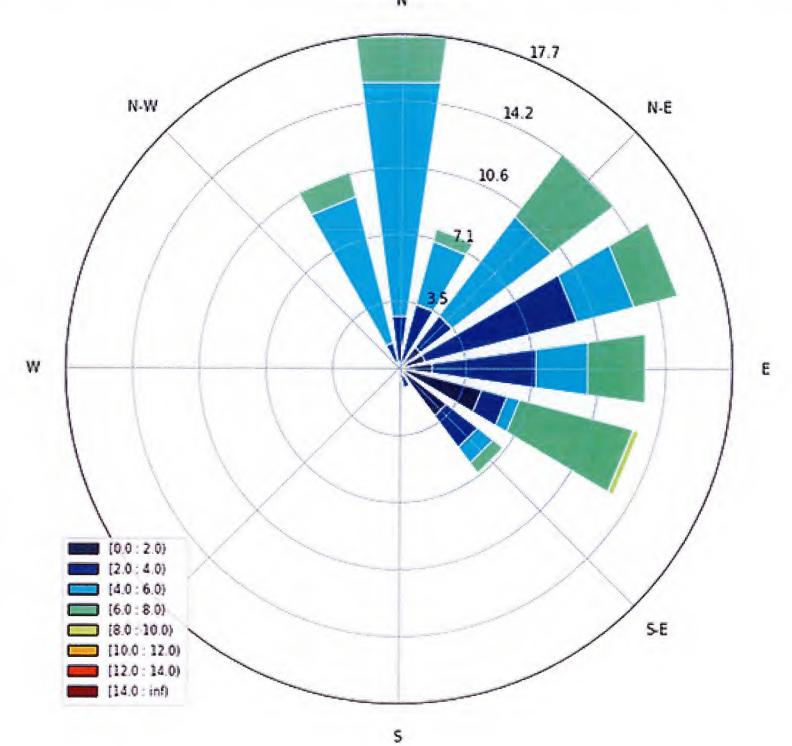
FPC: Nov 6 2018



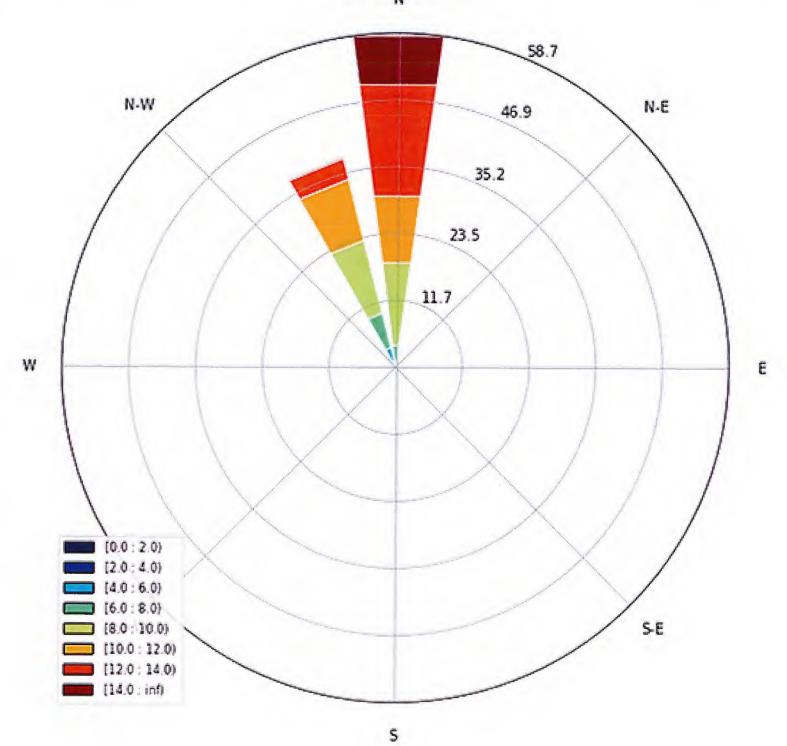
FPC: Nov 7 2018



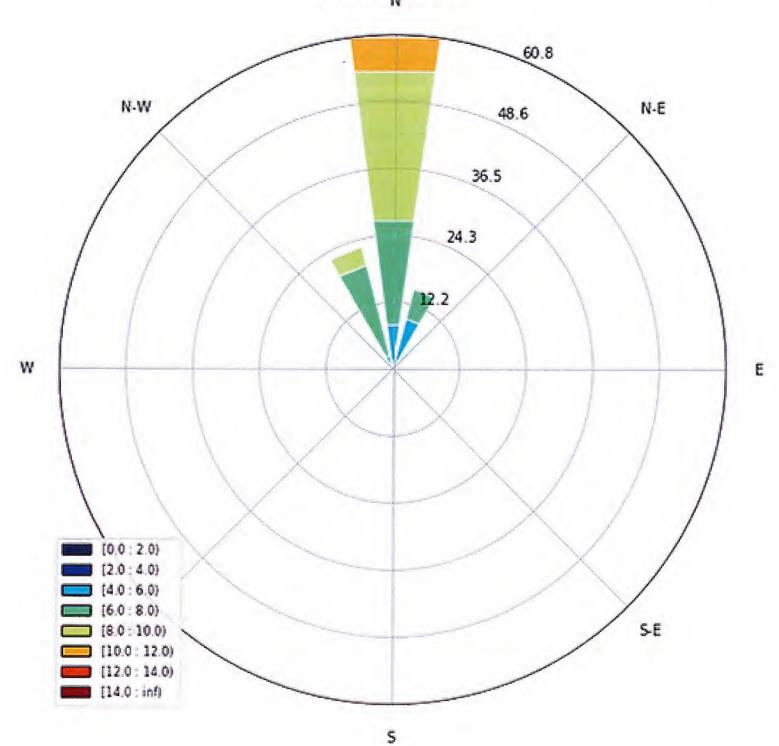
FPC: Nov 8 2018



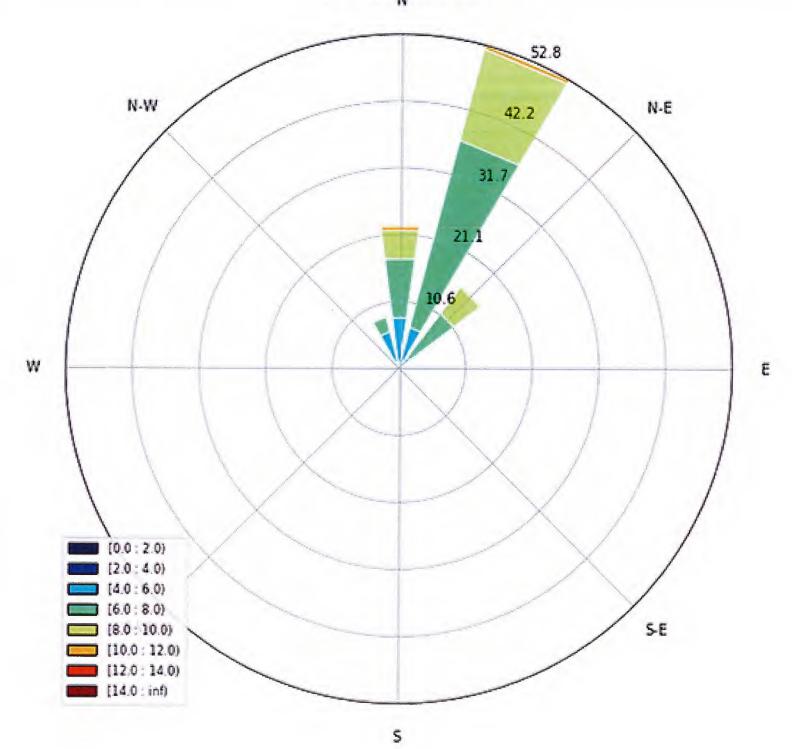
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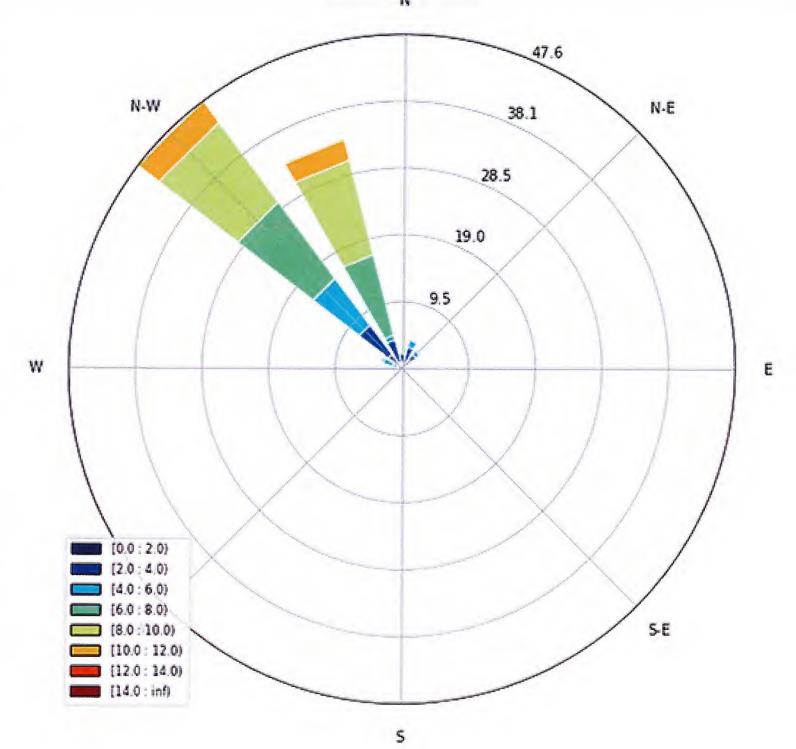
FPC: Nov 10 2018



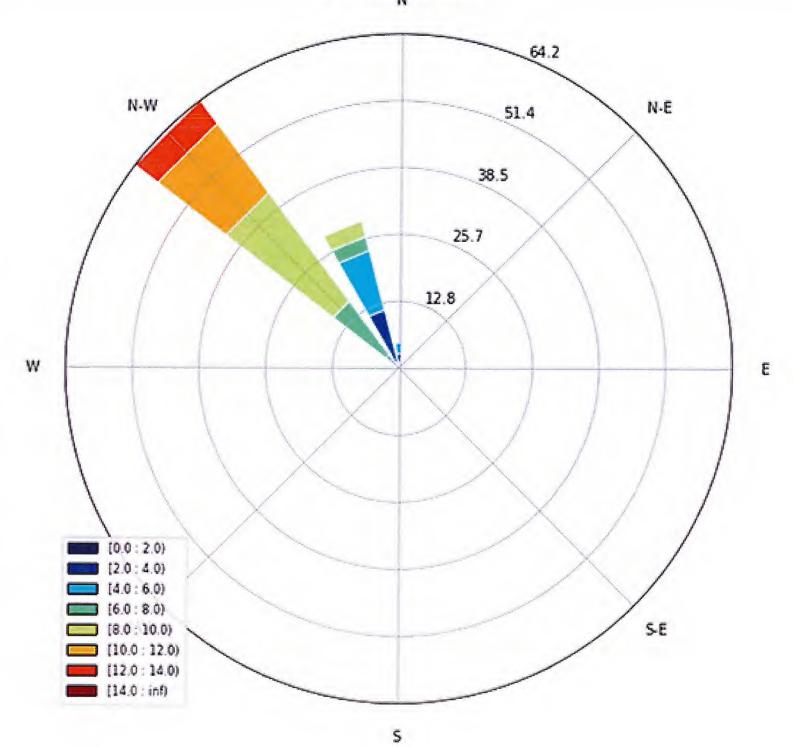
FPC: Nov 11 2018



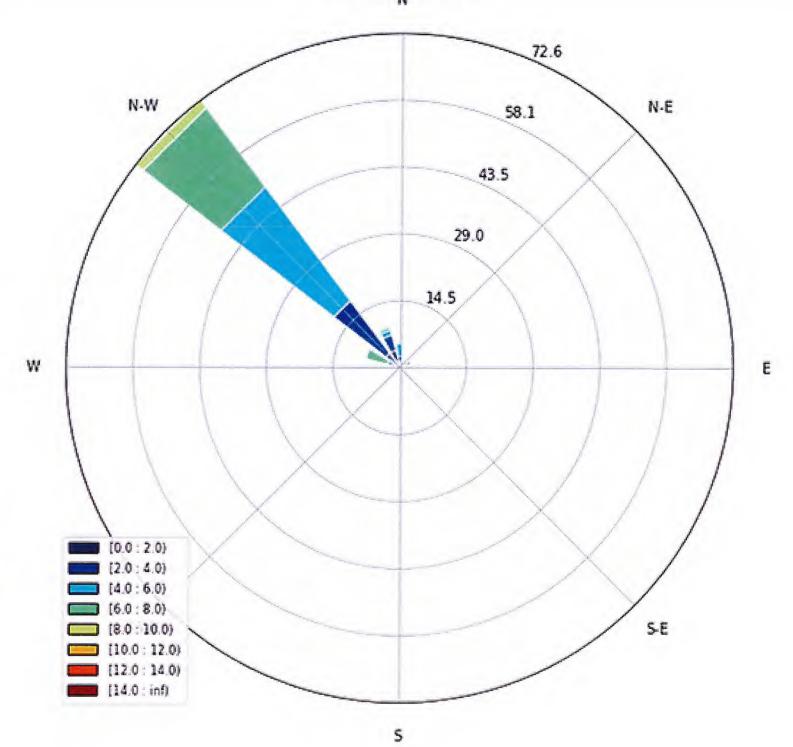
FPC: Nov 12 2018



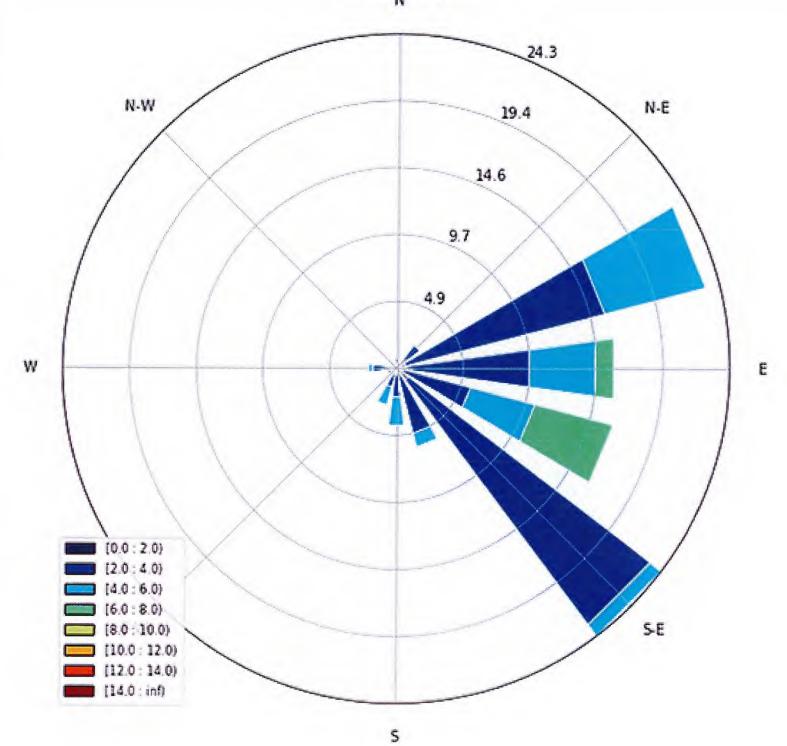
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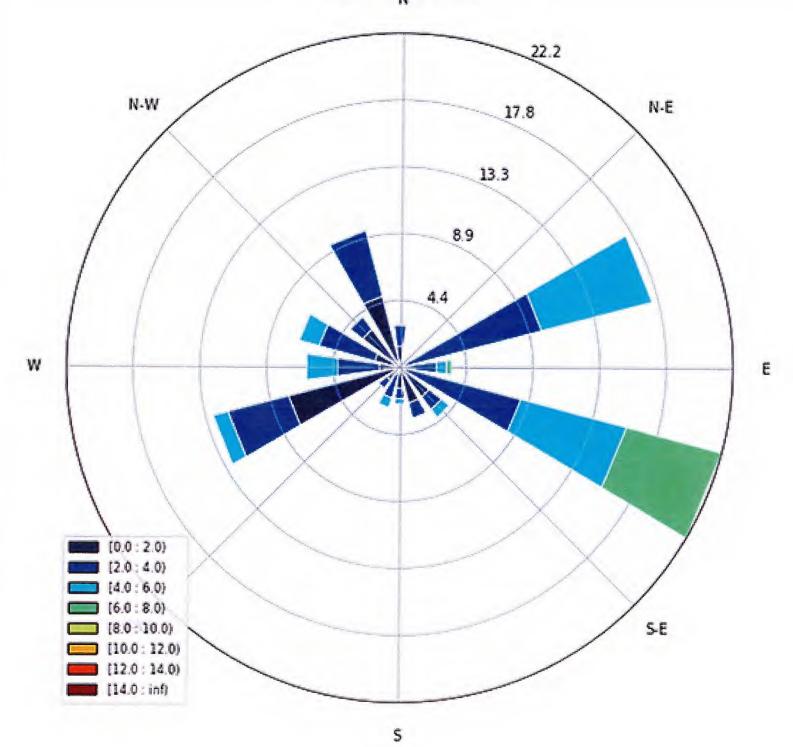
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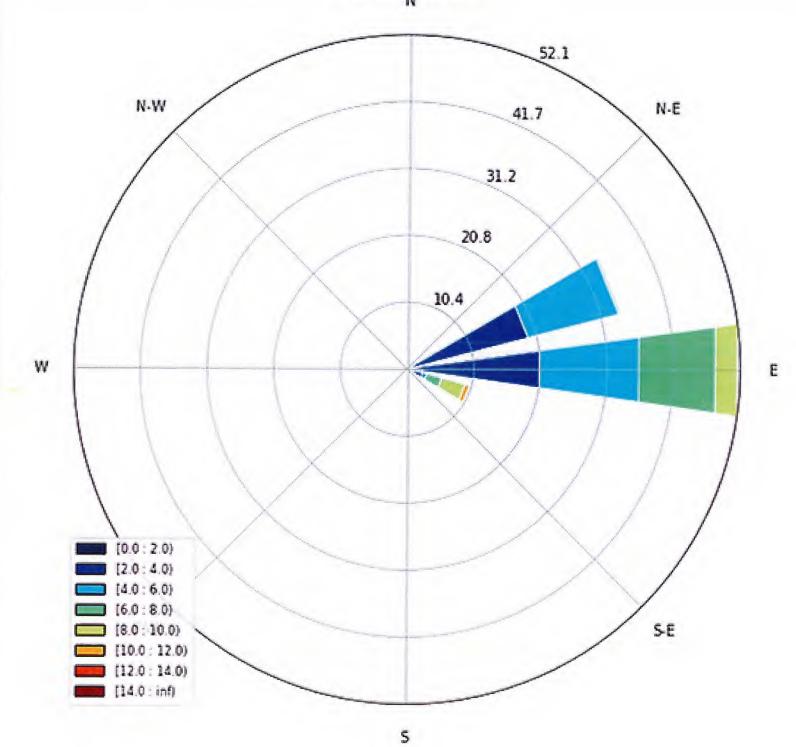
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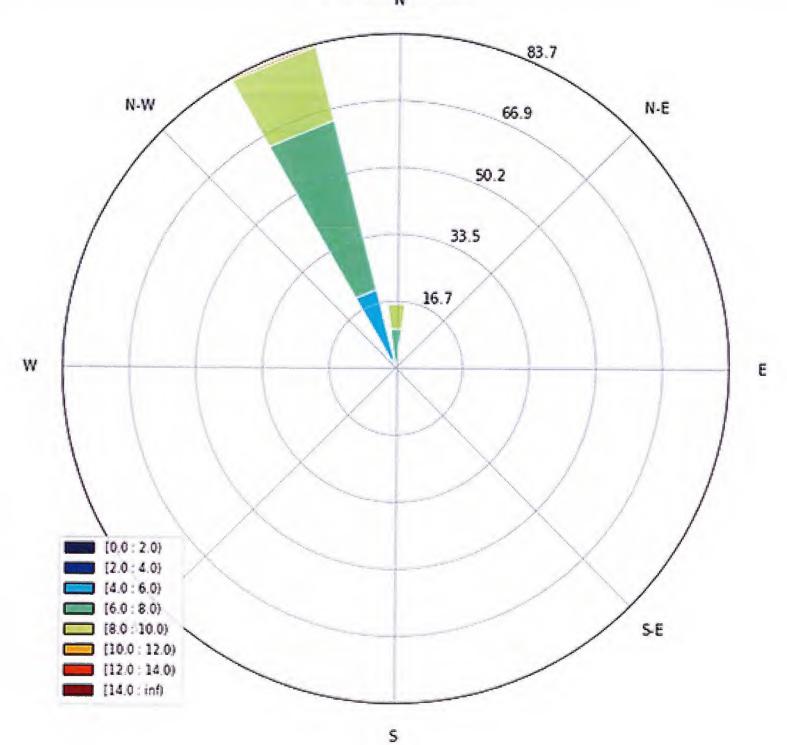
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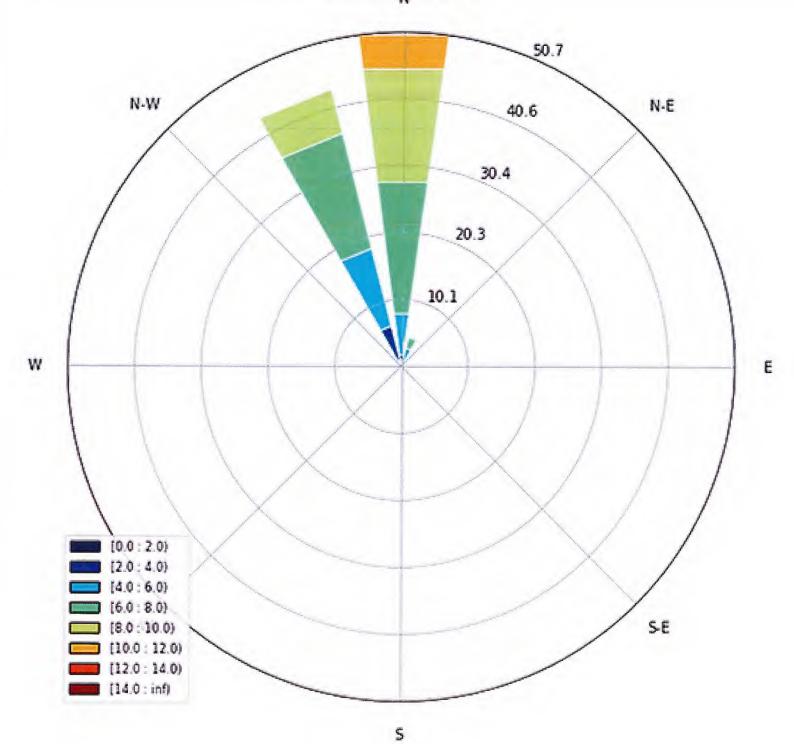
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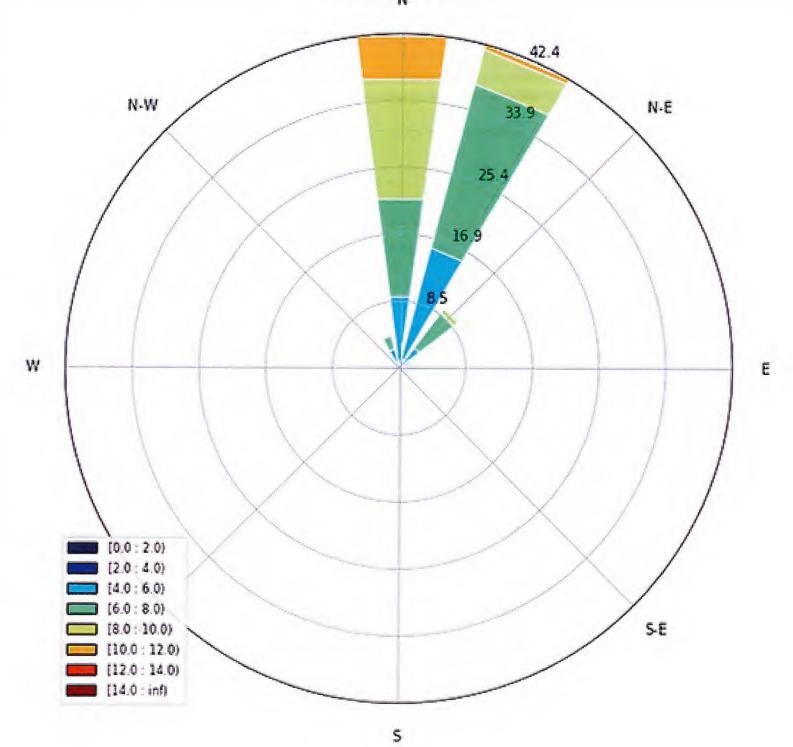
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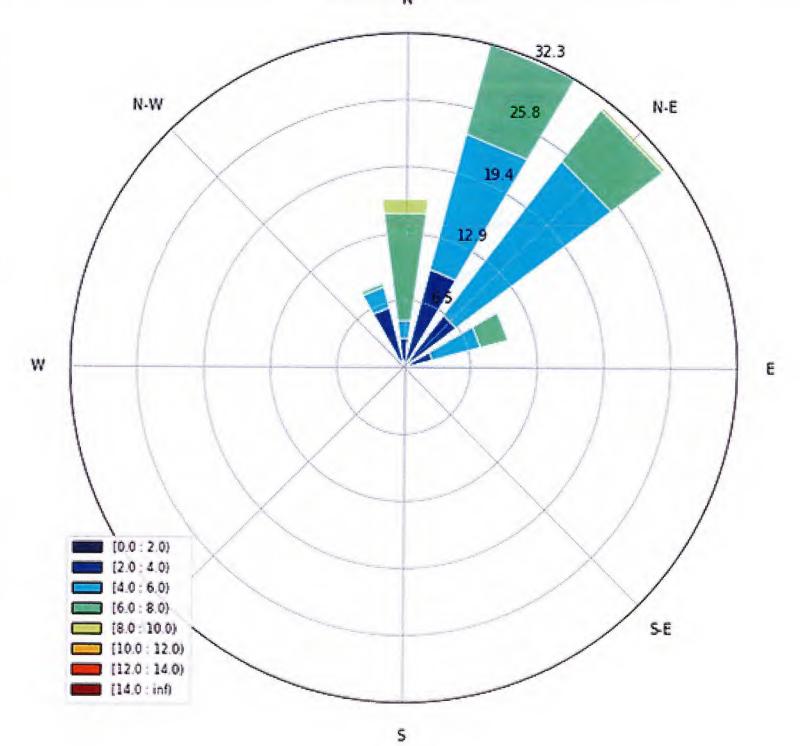
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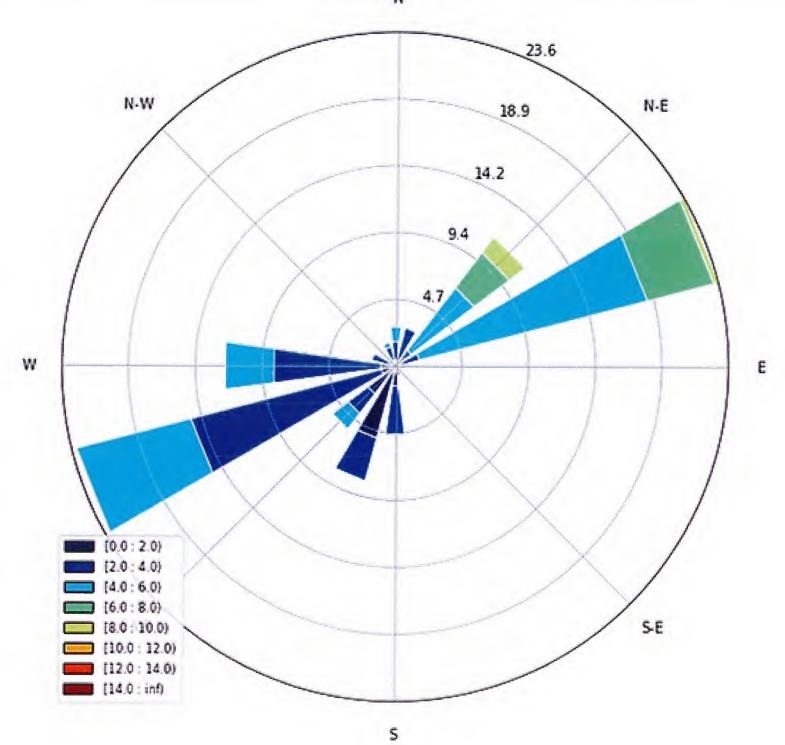
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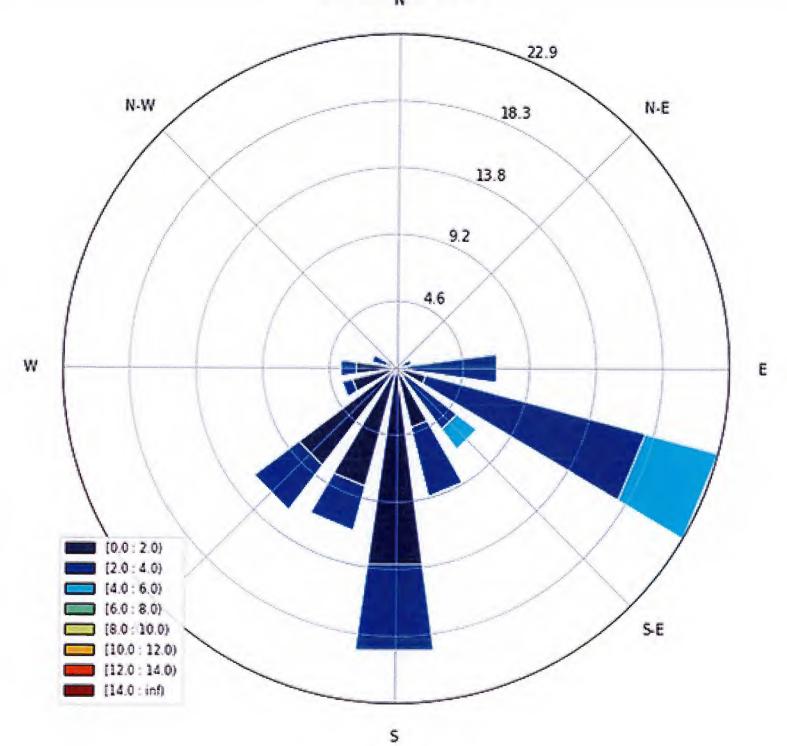
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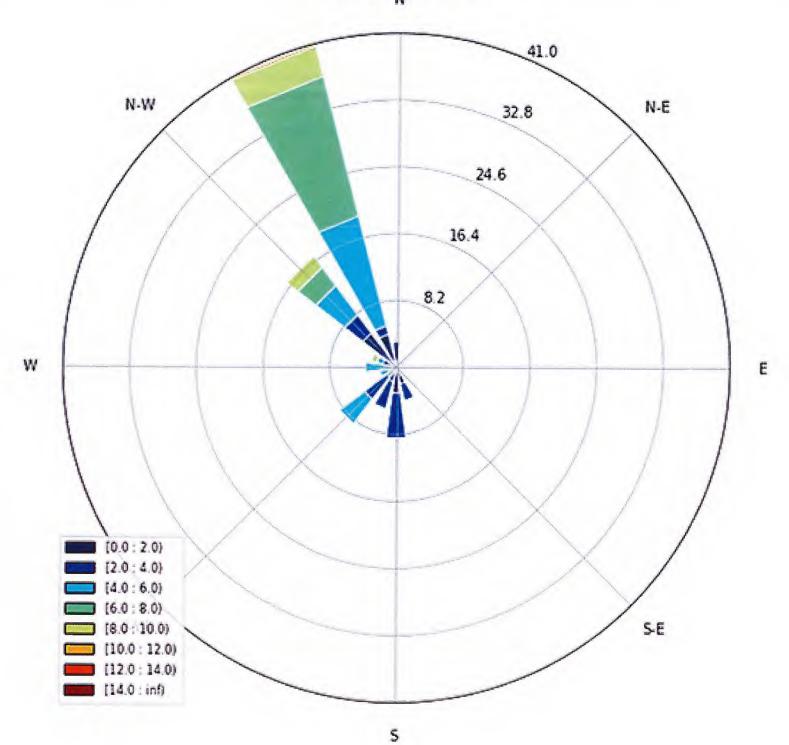
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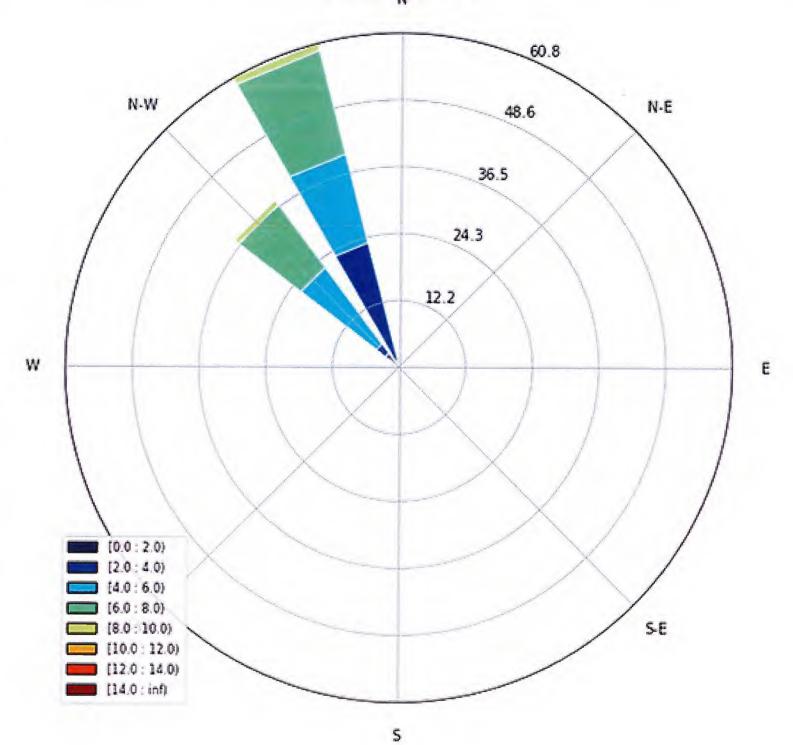
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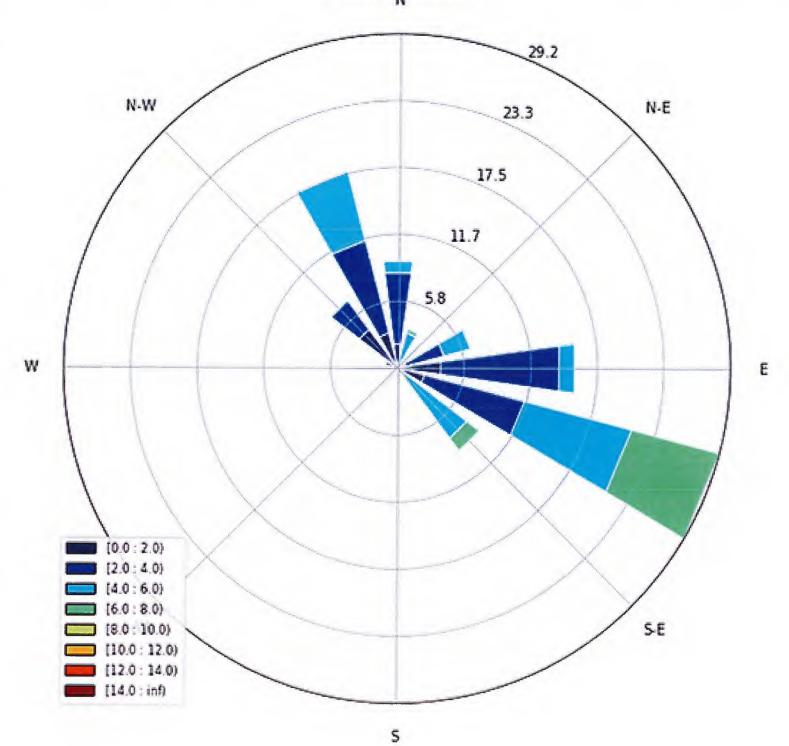
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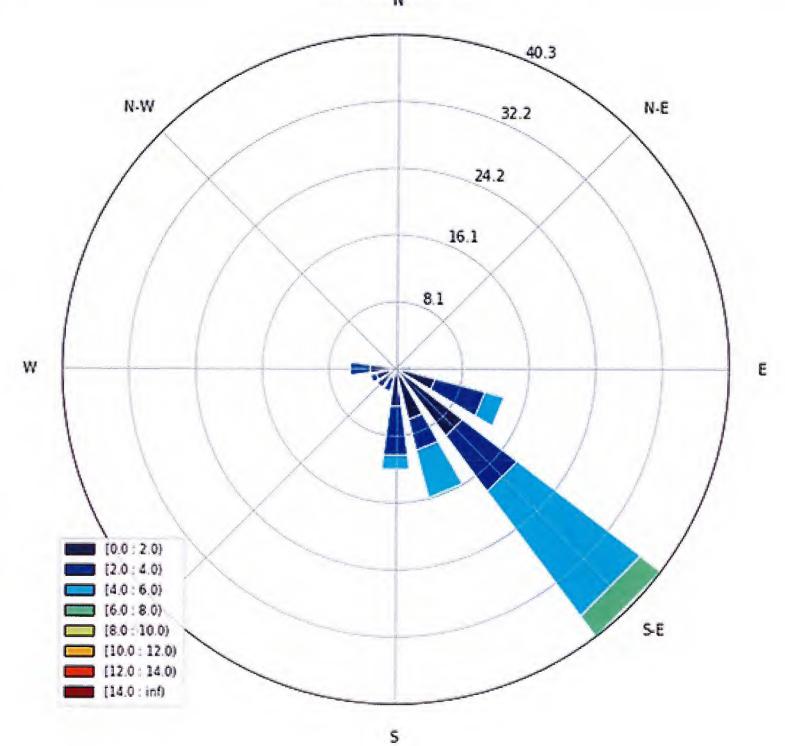
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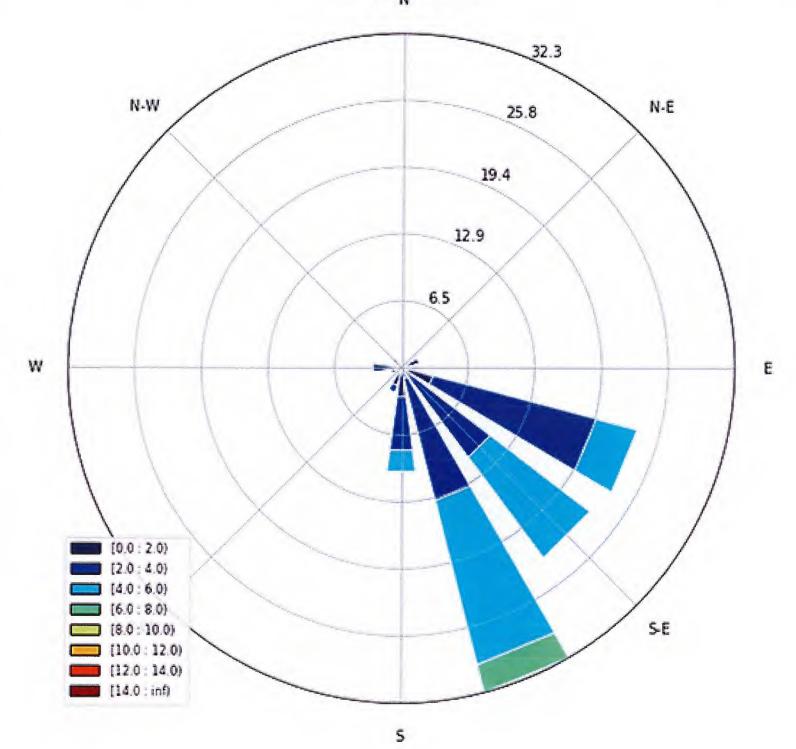
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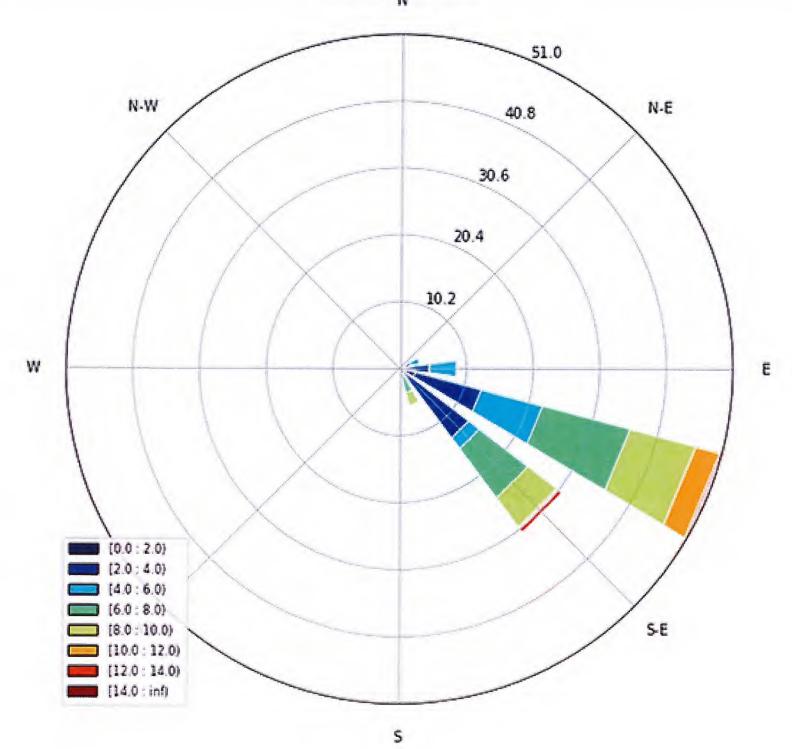
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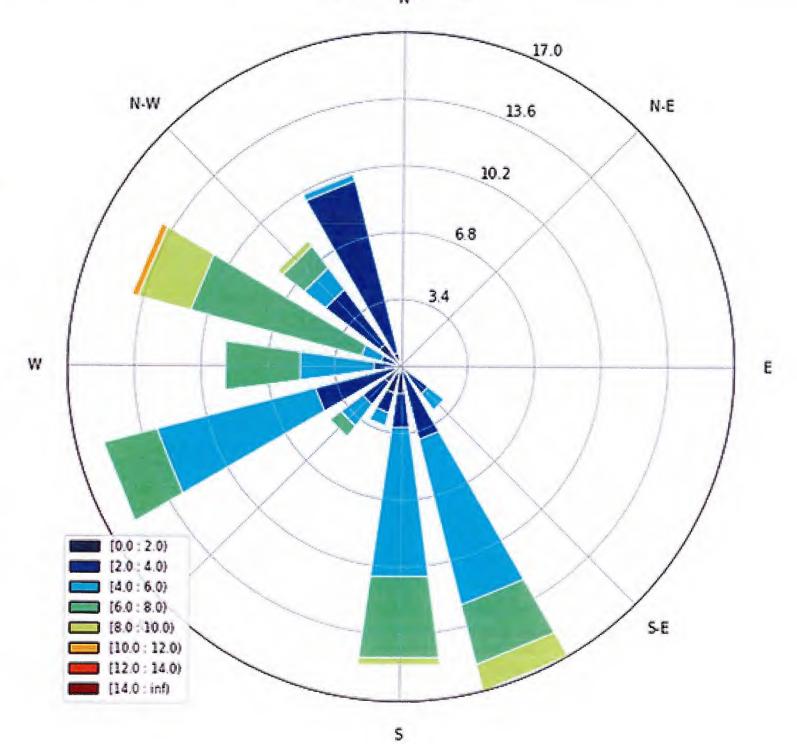
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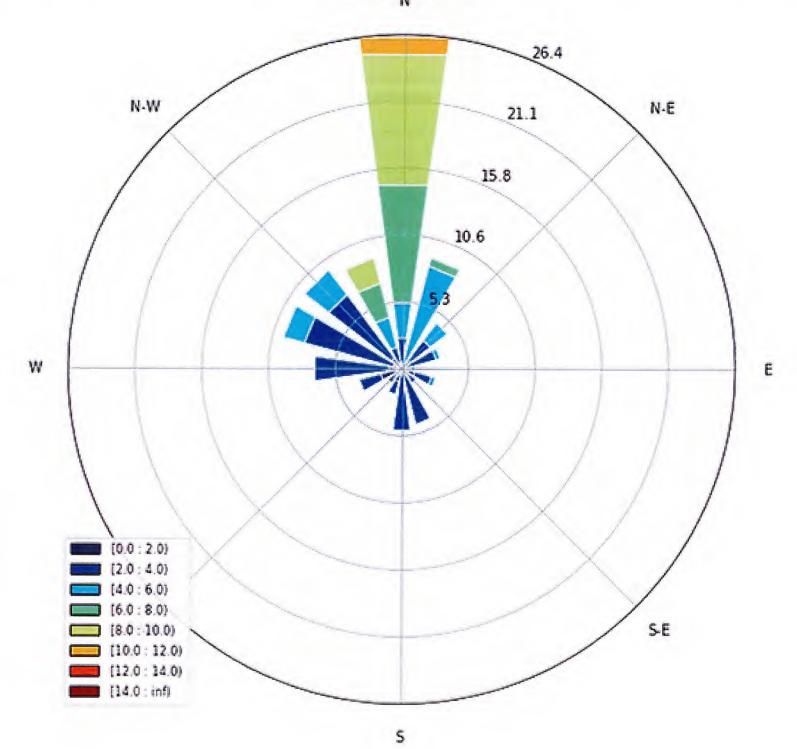
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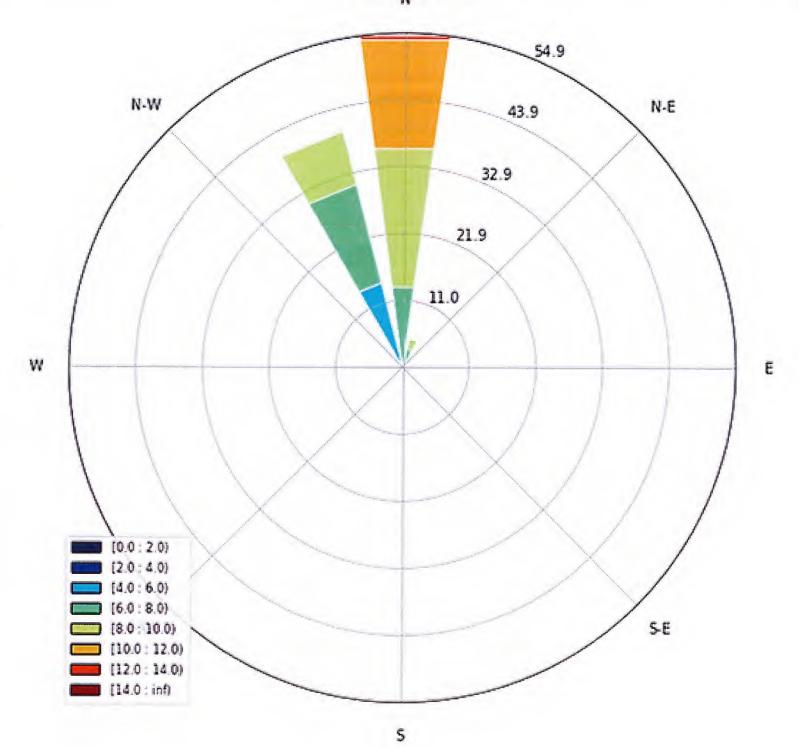
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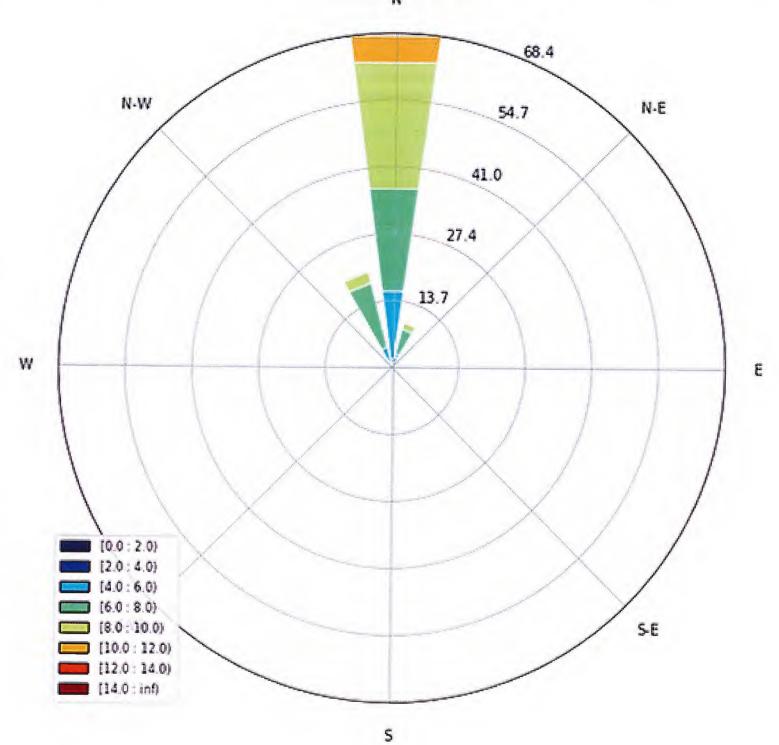
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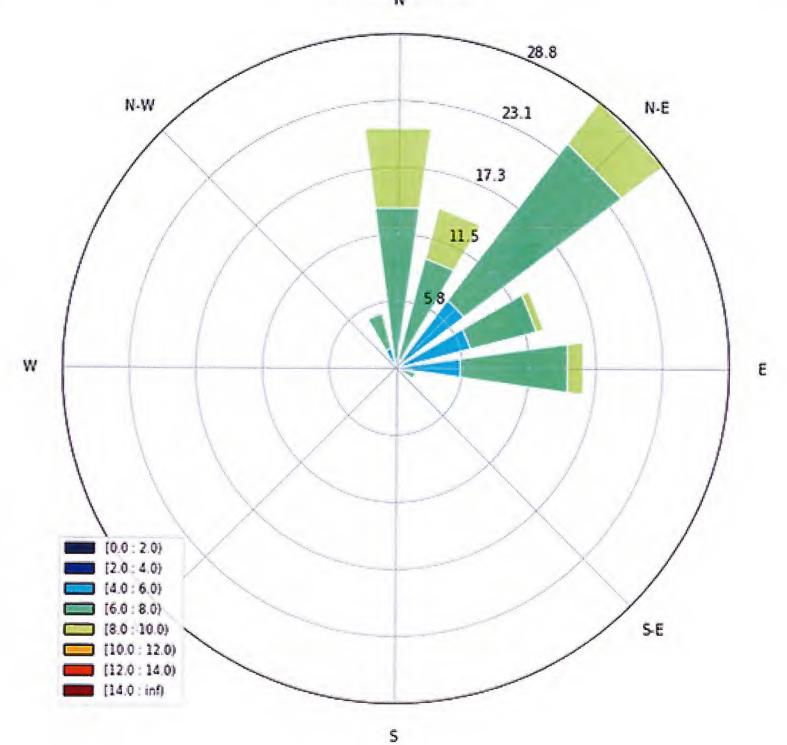
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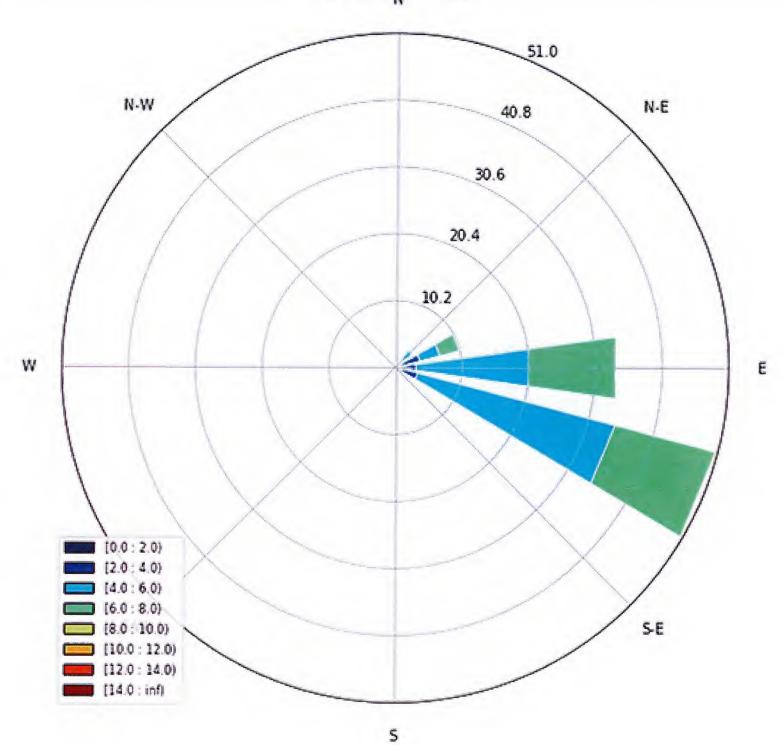
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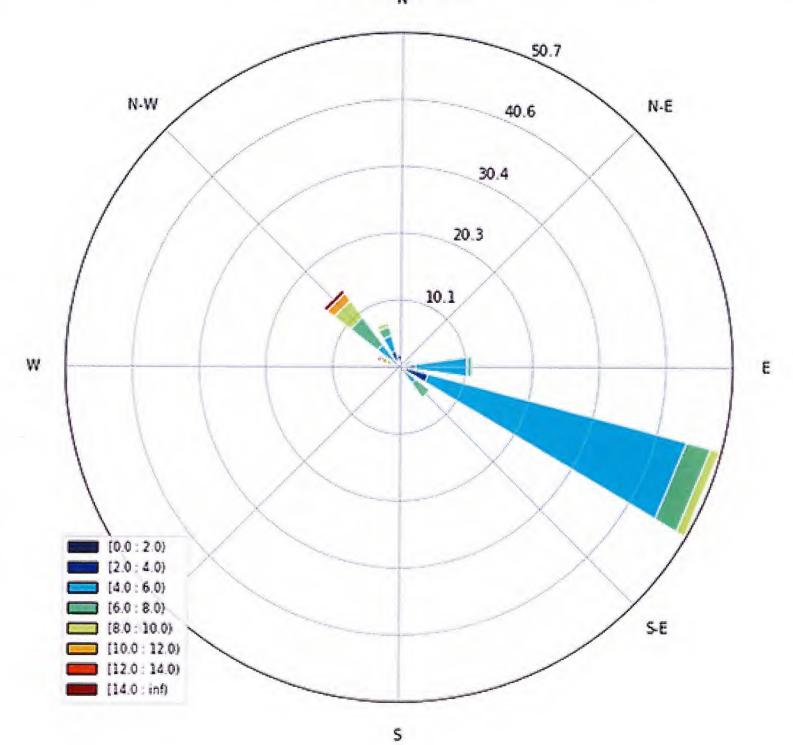
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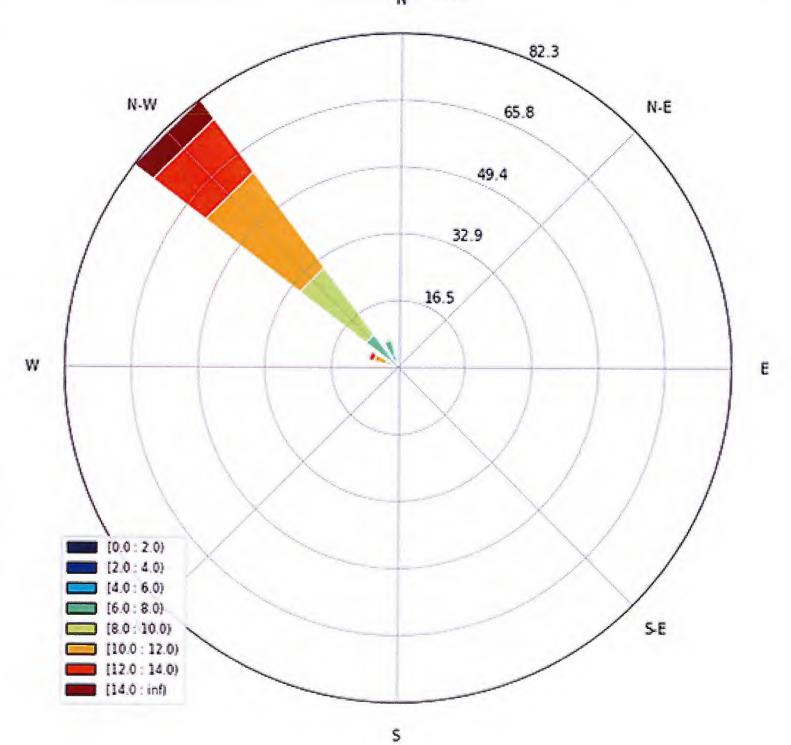
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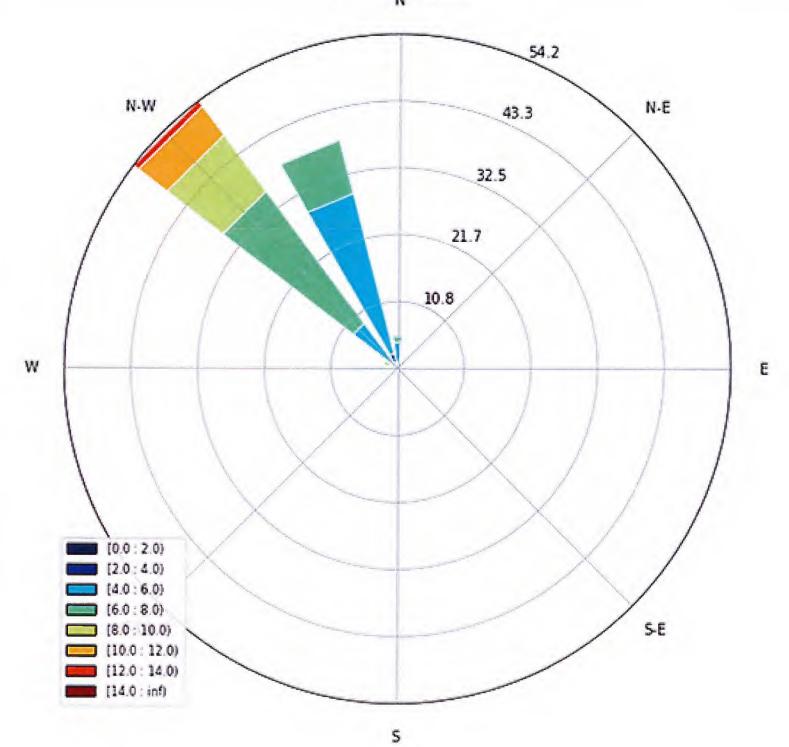
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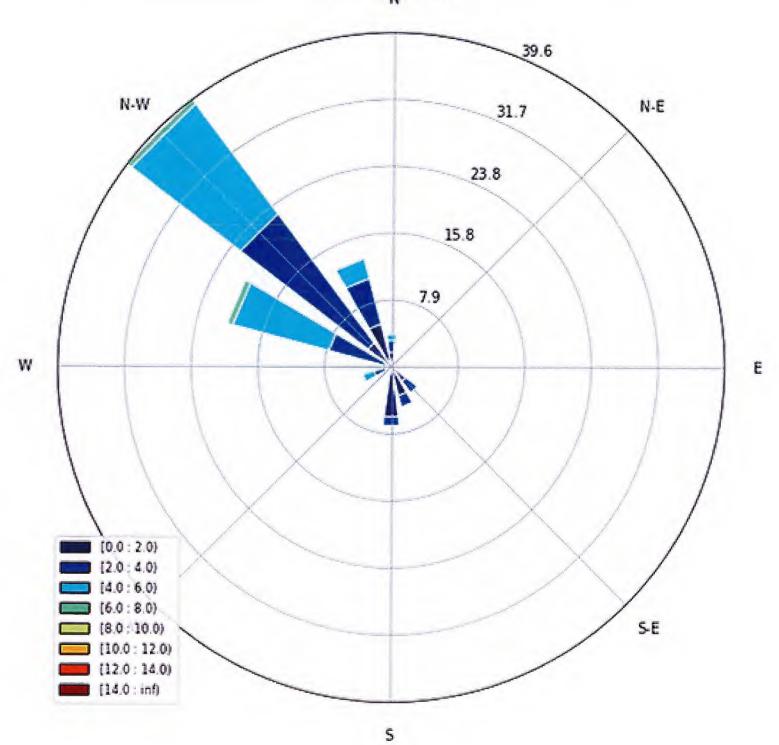
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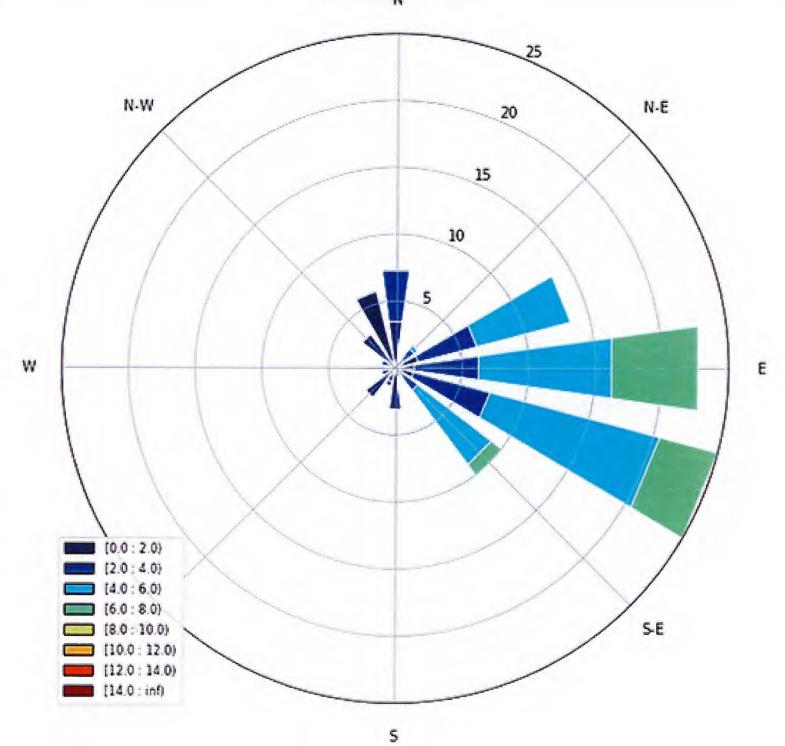
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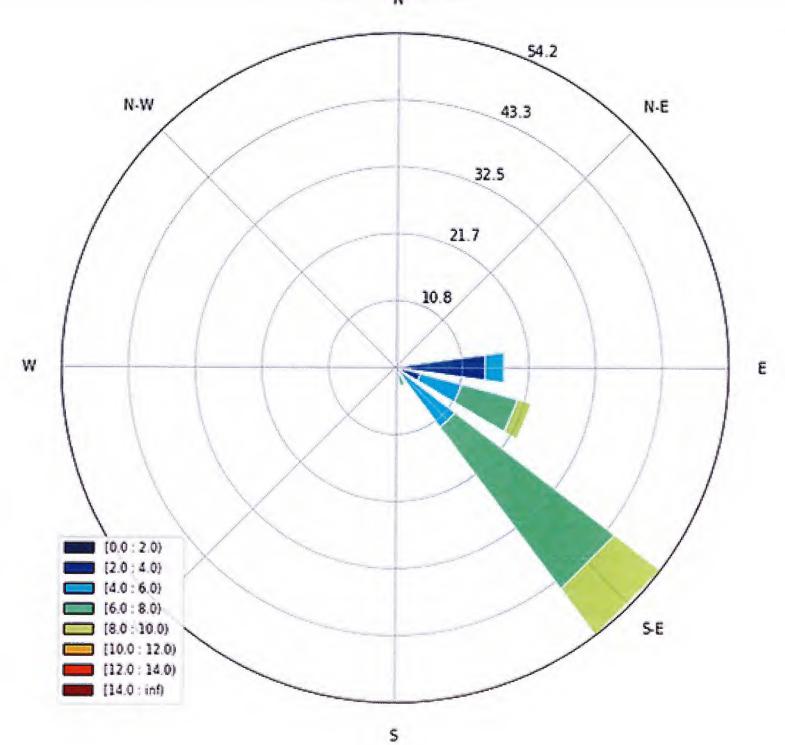
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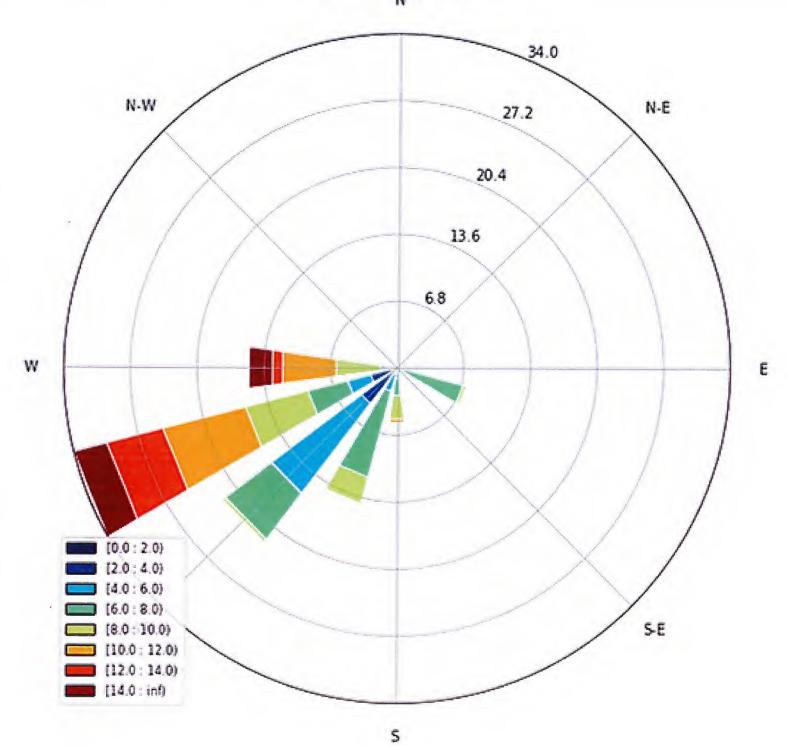
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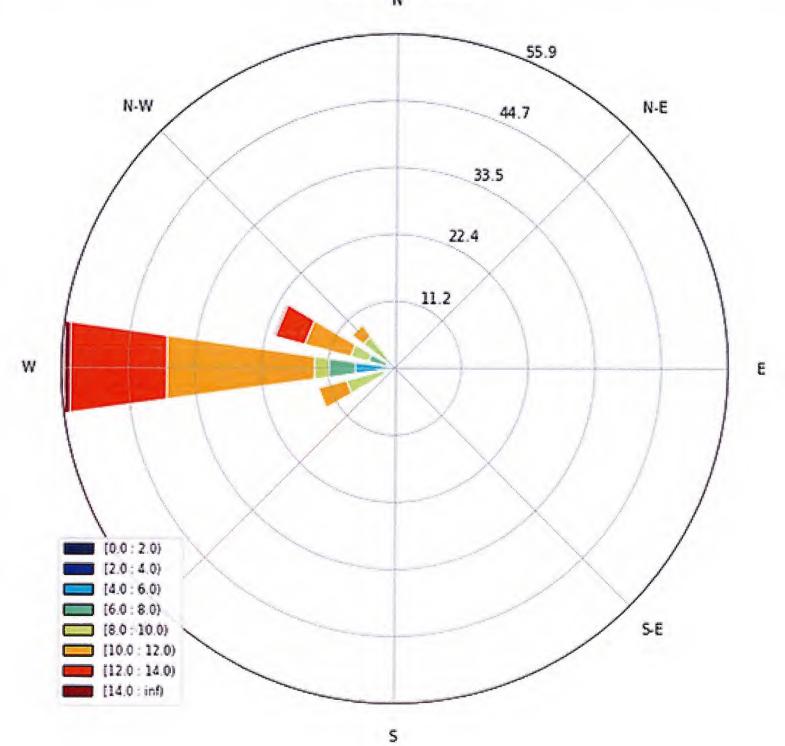
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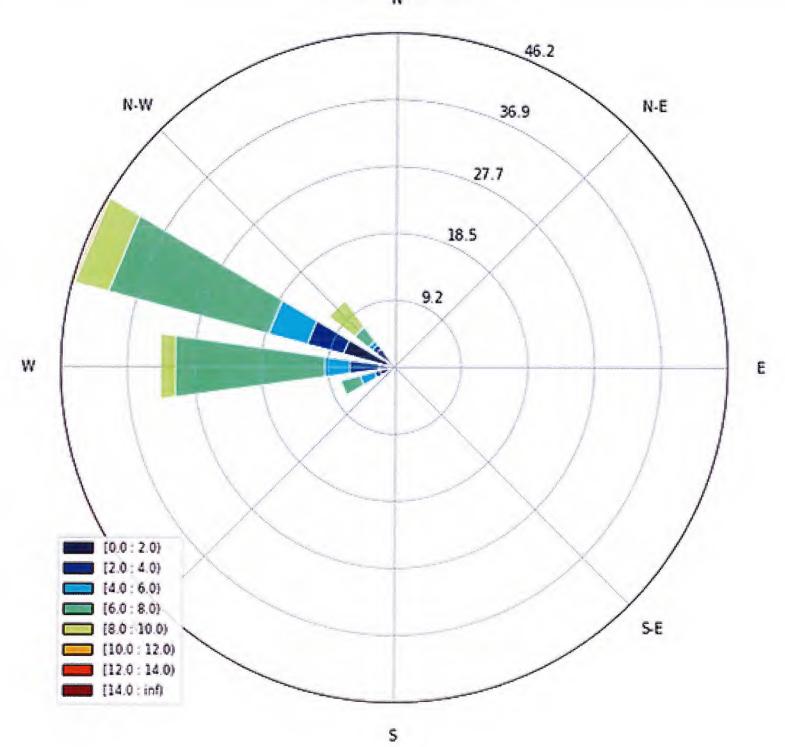
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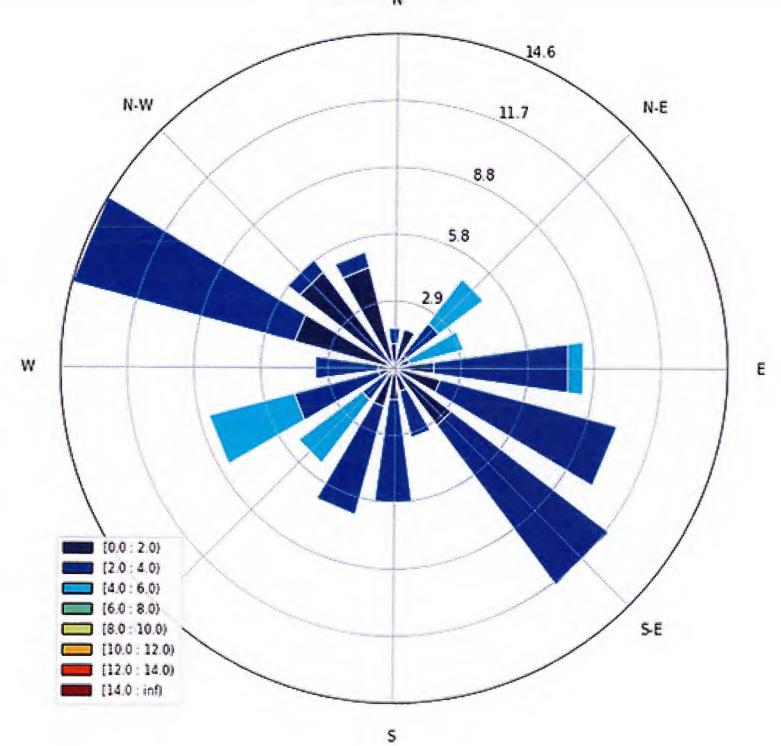
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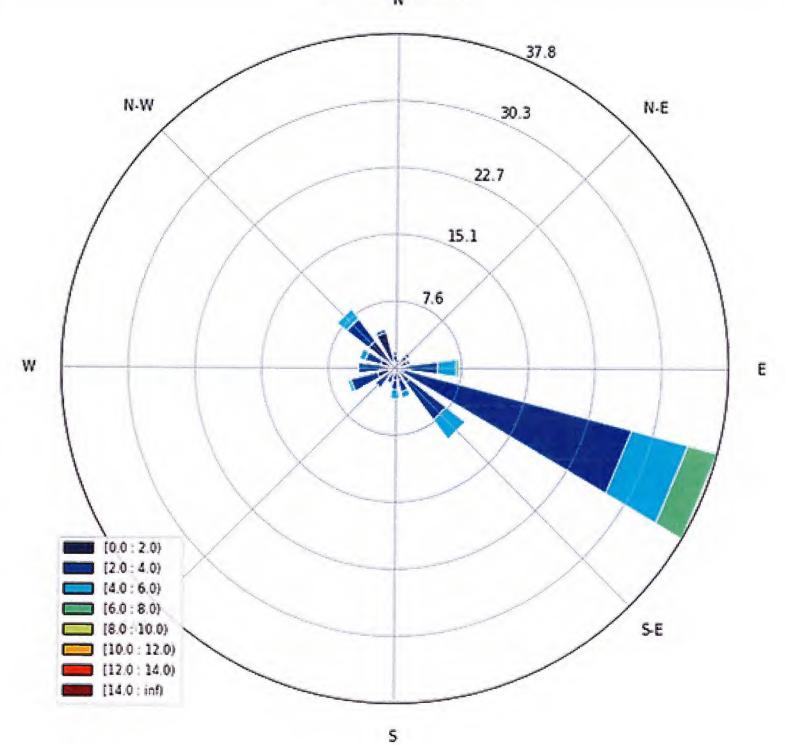
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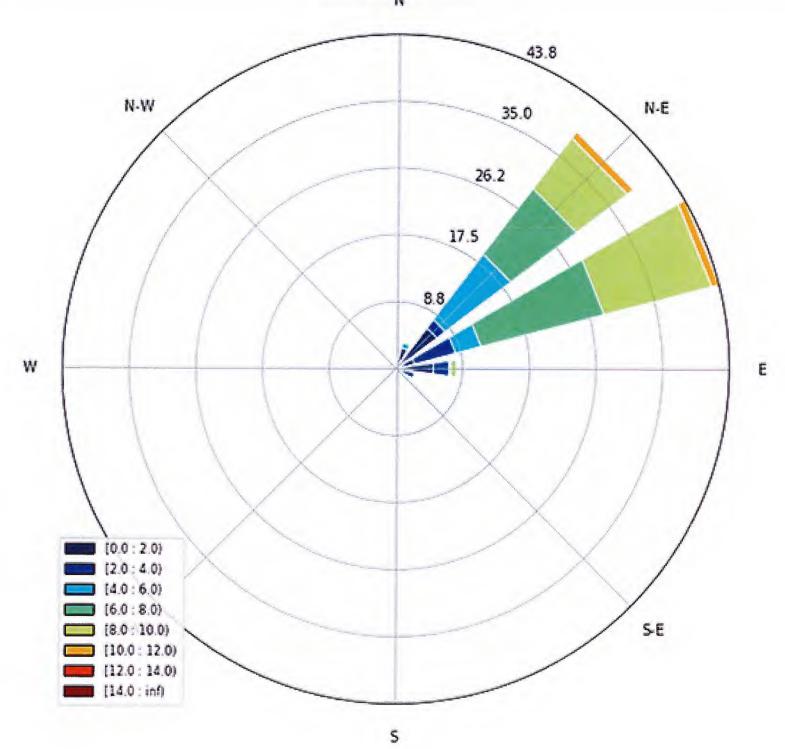
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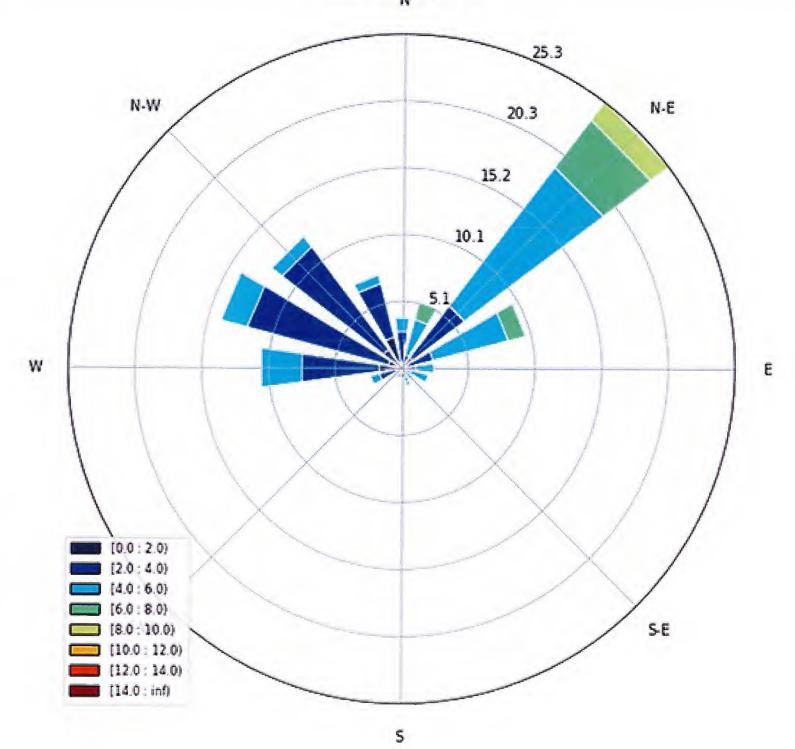
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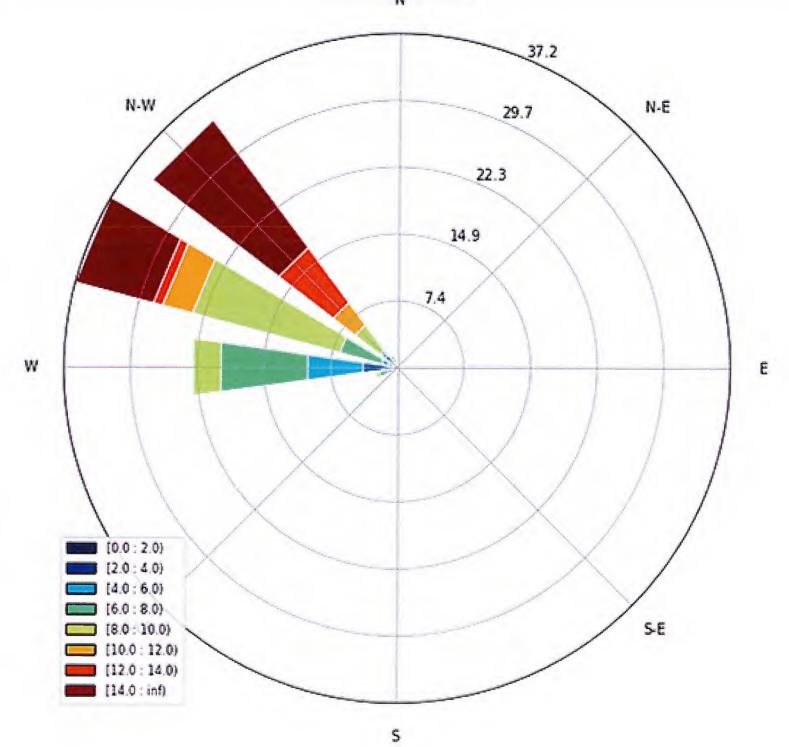
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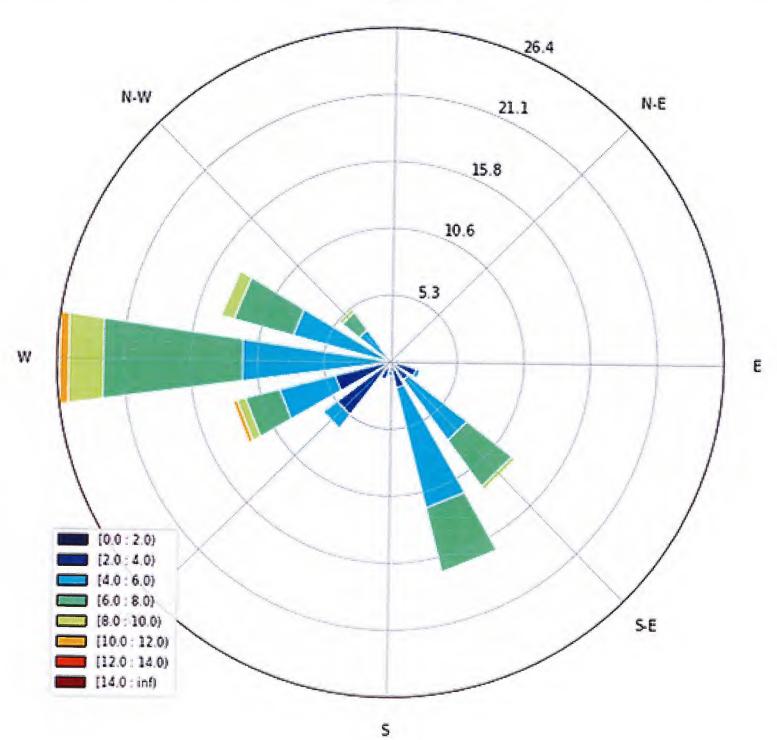
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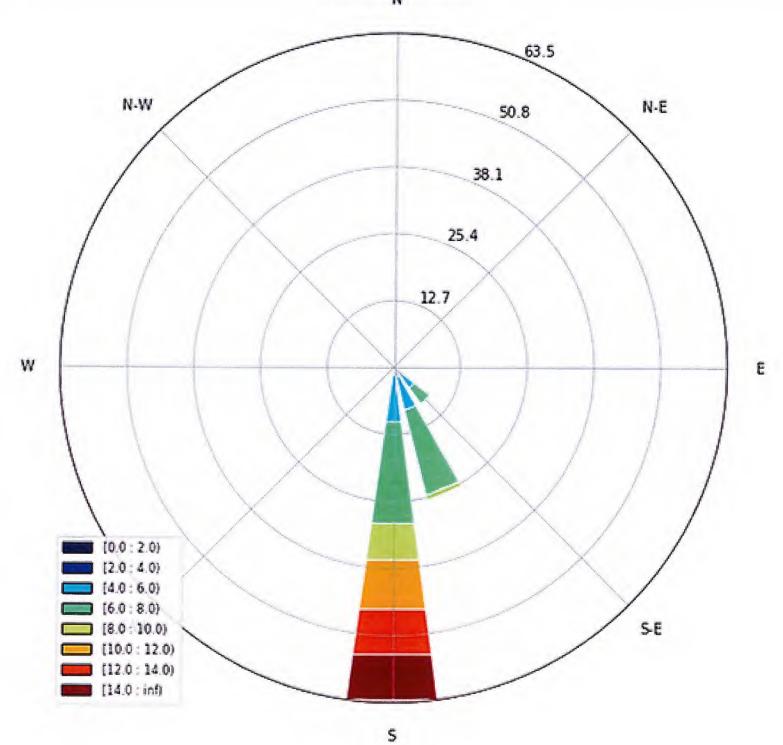
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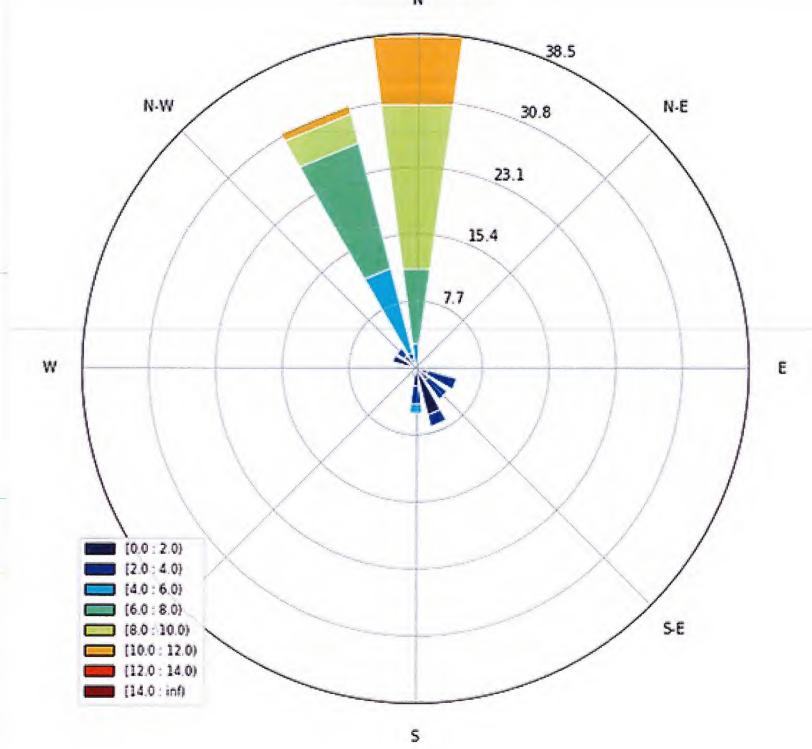
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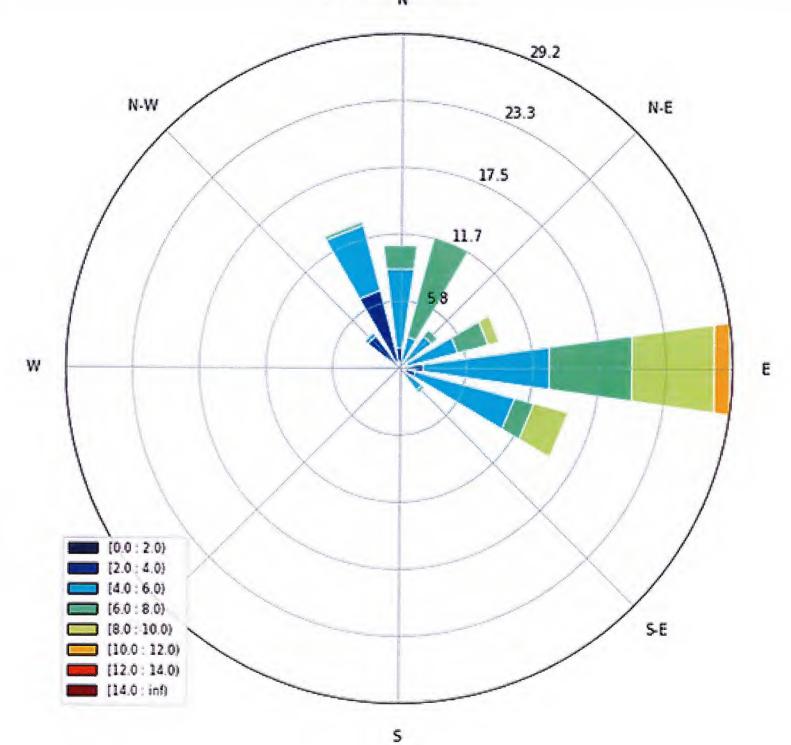
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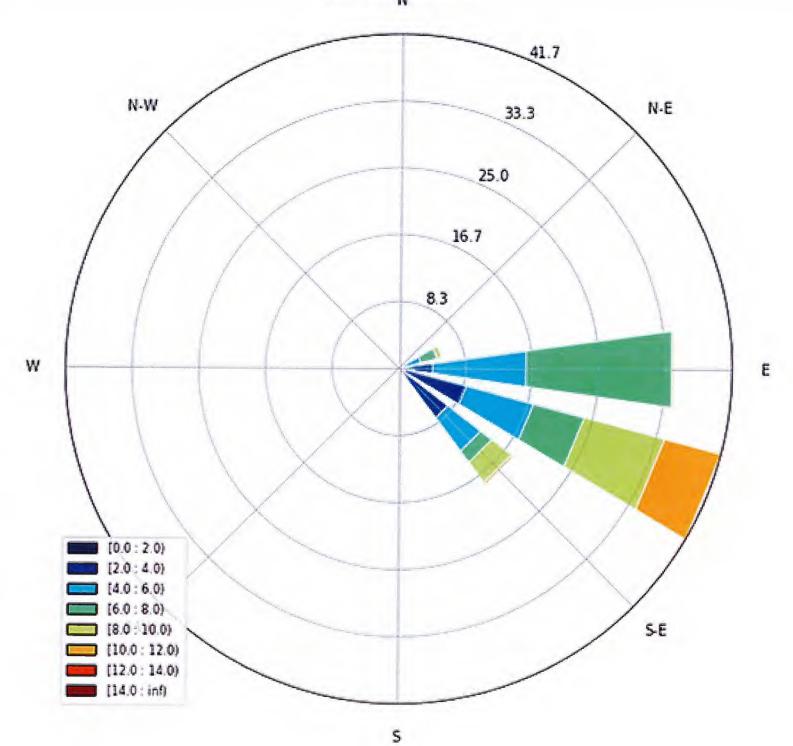
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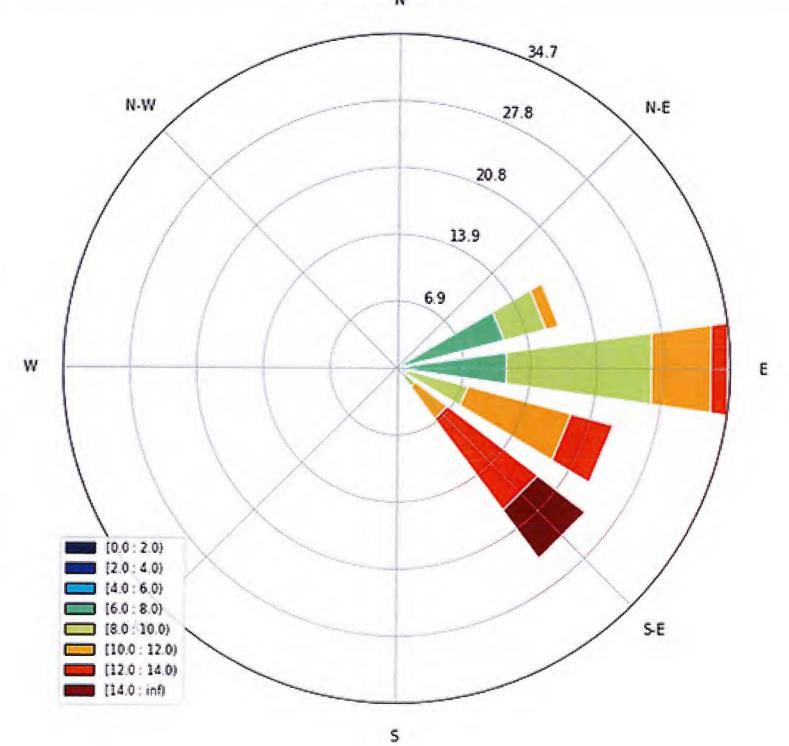
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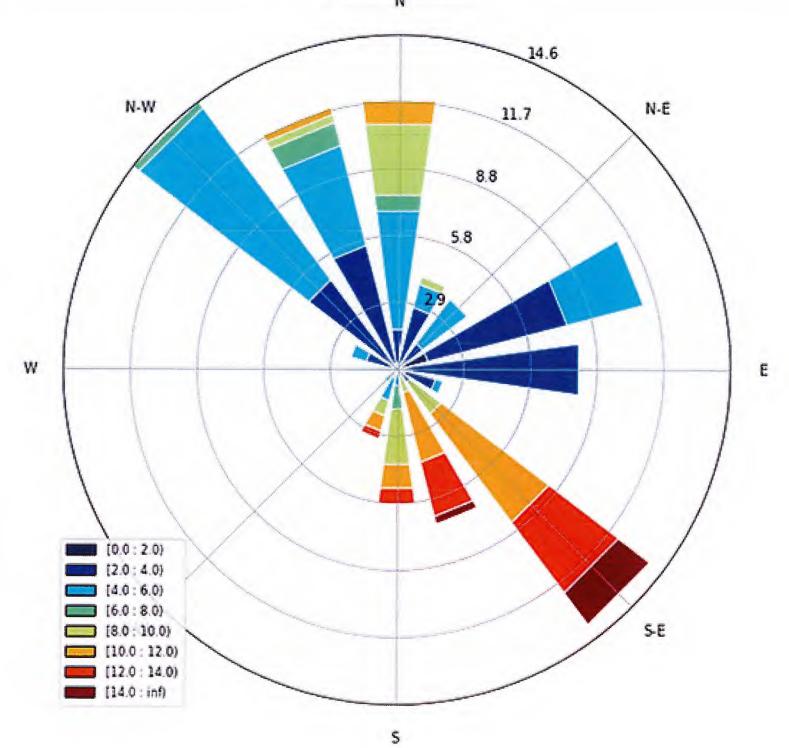
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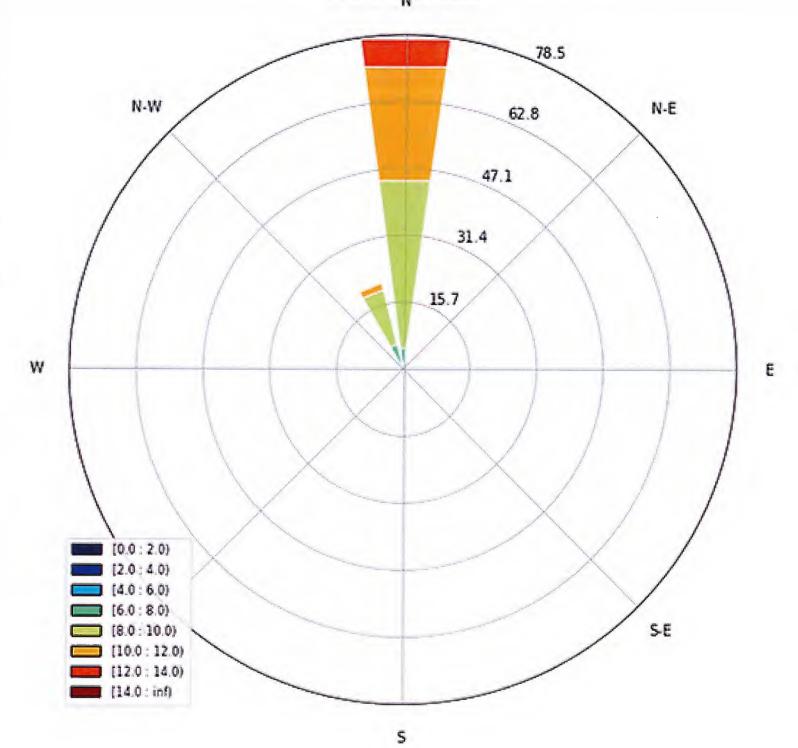
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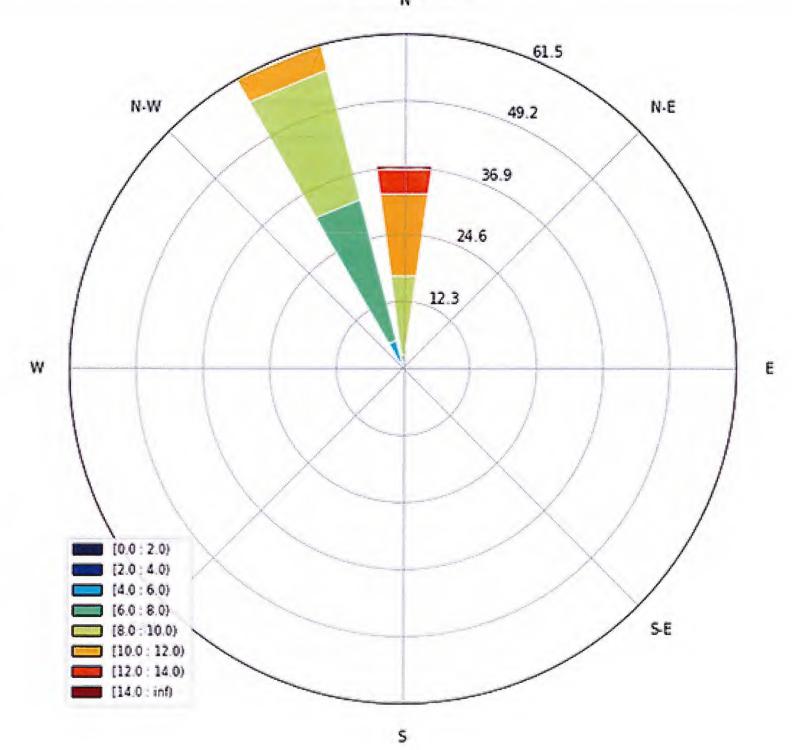
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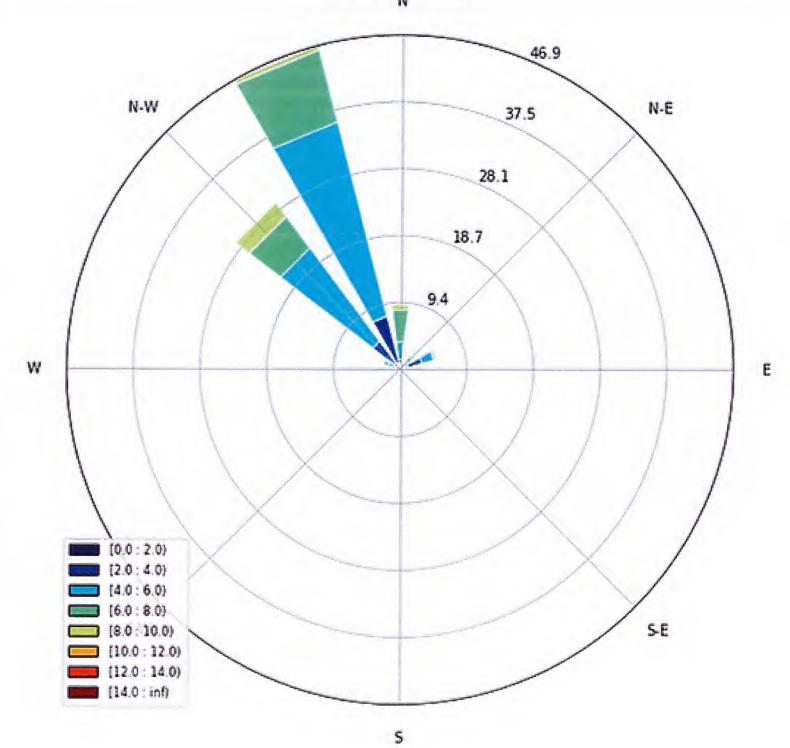
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FPC: Dec 29 2018



FPC: Dec 30 2018



FPC: Dec 31 2018

